

SEQUENCE LISTING

<110> Wong et al.

<120> CLONING OF RHADINOVIRUS GENOME AND METHODS FOR ITS USE

<130> 53683

<140> 60/107,507

<141> 1998-11-06

<140> 60/109,409

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<160> 179

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<210> 1

<211> 133719

<212> DNA

<213> Macaca mulatta rhadinovirus 17577

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 130381 AGTATAAAAC ATTAACACAA AATTAAAAAA TAAATACCT GTATTGCGC CATAAAAGTCC
 130441 GTATGATAAT AGTAAGGTGT AAGACTGTGT TGGTTGAGTT TCTGTTAATG TTTTAAAG
 130501 CACAAGTGCT AAAATAAAAAA AATAAATGTT AGTTATTAA TTTTAAAG CAATTATTCT
 130561 TCAAGTAATT CAAAGTTGTG TCATACCTGC GTAAATTGCA AACCAAGATC GCATTAAAAT
 130621 TAGTATGTT GTTTTCCAC ATAGCCACAC ATAACCATAA AACACAATGG CCGTAAGAAT
 130681 TACTGGCAC ACAGCGAGATA CTTGTAGTT TGGAGTCCAC ATAAGAAATG TAGAAACAAT
 130741 AACAGTGCT ATCCATGTTG GTCCCACAAG AAGACATGAT GTGTTTAC CGATTAATT
 130801 TTTCGGTGGT TTATATAACAA ATATTAATAT GCGTAAAAAA TAAACAAA TTACCTATGT
 130861 AAGGCCAATA TCATAGAAA ACAAACTTTA AACAGGTAAA AAGTTACGTC GCGTTGTC
 130921 AAAATTGAGA TACGCATGCA ATAGCACTAC AGCTCTGTAC CAAATACTT TATAAGTTA
 130981 AGGCCAATGC CGATAGTAAA ACACACATG CTGCAAACAA GTACACAAAA AATCCATGG
 131041 ATTTGCTAAT TAAAATTAAAT ATTTCAAATG TATTATAAAA TCATACCTGT ATACAAACTA
 131101 AAAAATTG AAGGCCAACGG AGTTAATTGA CCTGCTCTGC TTGATTACA GACTGCTTGA
 131161 ATAGTTTCC ATAAAAGAGA ACAACACGT ACAAAATGAA AAATAATTGT TGTAAGAAGG
 131221 TTAGAAGTGT CCCTGGCATG TTGTACCAAG GCTATTATCC AAAACGTTAA TTTAAATAA
 131281 TTGTAAGTA ACCAAACTACT CCAAATAAAAA AAGGTATAGC TACACGCCAT TTACATCGTT
 131341 TCAAAACTGT ATTATCAAGT TAAGGGGGAG TTTGAGCTT AAAAGGTTGG
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 131521 TATTGTTTT TGTTCTGG CCTGGATGCT TGGAAACATT CCTGTTATTT TGATGTTAGG
 131581 CCAAACGTG GAAAACATTA AGAGTGTGTT TTGAAAATAT TTTTGGTAA CAAAACCATG
 131641 TTTTAGGTCC CAAAAGGAAC ATAAAATGTT TTAATAGAAA CATGCCAGT ACAGAACATT
 131701 TTGTTTGGTA CGTAAACTAA AAATATGTT GGTAAAGGGCT AGGGTAAGGG GCAAGGGGTA
 131761 AGGGCTAGGG GTAAGGGCAA GGGGTAAGGG CAAGGGGTAAGGG GGGCAAGGGG TAAGGGCAAG
 131821 GGGTAAGGGC AAGGGTAAAG GGCAAGGGGT AAGGGCAAGG GGTAAAGGGCA AGGGGTAAGG
 131881 GCTAGGGGTA AGGGCTAGGG GTAAGGGCTA GGGGTAAGGG CTAGGGTGAG CTAGGGTGAG
 131941 CTAGGGTTAT AGTTATAGTG TAAAATAATA GGCCTACGAT AAAATGTCAA CATATATTAA

132001 TTAATTGTG TTTCATTAAC AGCCATGGTG TATTAGAGTA AAGGTTAACG CTTCAATACA
 132061 ATATACAAGT AAAAGTAAAC CACACGAATT TATAACATAT TTACAAAAGC GAACCAAGCT
 132121 GGCACATGTA ACTTCACGCT ACCCTAAACG TACAATACTG GGACTAGAAC CCAGAGGTAG
 132181 TTAGAATATA CGGTAGTTAC AGAACCTTGC AGTTCCCTTA GGCCAGCAGG GCTCTGCGGT
 132241 TAATTAACAA AAGTTAAAG ATAACGTAAA CTTTAGGAAG TGCGTATGGG TGCAATGTGT
 132301 TCCAAATAGG GCAAGGGTTA CATAAACTGT TGCTTAGCGG CCGGGCCCGG AGGCGCCCGG
 132361 CCGGCGCCGC CGCCGGGCCG CGGCCGCCAT CTTGCGCCCG GGGCGAGGGT CCCCCGCGCG
 132421 CCCCCCGGGC CGCGCGCCG GGCGCCGCCG GCCTCCCCCG GCTCCCGGCC CTCCGCCCCG
 132481 CCGGCCCCGG CCGCGGCCG CCGCCCCCGG CCGCCCCCGG CCGCGCGCCG GGCGCGCTTC
 132541 GGTCGCGGGG GCCGGGGGTC CCGCGGGGGG CCGGGGCCGC CCCCAGGTGC CGCTCCGCCG
 132601 GGCCCAGGGC ACTCCCGGGA GCGCCCGGT CGGGCGAGC CGGGCGGCCG CGCGCCCCGA
 132661 CGCCCCCGG GCGGGGGCC CCACAAGCCG CGGCAGCGGG CTCCCGATGC CGGGCGGCCG
 132721 CCGCCCGGCA TGGCGGTCTT CCGCCGGCCT CCCCTCCCCC ACGCCGCCCC GAAAGGTGGT
 132781 CTCCCGGCCG CGGGAGGGGG GGCGGGGGC CCGGGCGCCT CGGGGGGCC CGGGCGGGGG
 132841 CGCGACCGAG GGCCCCGGGA GAACGGGGGA TCAGGGAAAAC GCGAGGGGAG CGGGGGACAG
 132901 GGGACGGCGT GTGCGTGCCT GTGAGACACC GGGTACGGCT GCCTGCCTGC TCGCTGGCCT
 132961 GCTTGCTGAG GGGACAGTAG GCCTGCTTGC TCGCTGGCCT GCTTGCTGAG GGGACAGTAG
 133021 GCCTGCTTGC TGAGGGGACA GTAGGCTGCTC TTGCTCGCTG GCCTGCTTGC TGAGGGGACA
 133081 GTAGGGCTGTC TGGCTTGCCTA GTAGGGCTGTC TCGCTGGCCT GCTTGCTTGC TCGCTGGCCT
 133141 GCTTGCTTGC TCGCTGGCCT GCTTGCTTGC TCGCTGGCCT GCTTGCTTGC TCGCTGGCCT
 133201 GCTTGCTTGC TCGCTGGCCT GCTTGCTTGC TCGCTGGCCT GCTTGCTTGC TCGCTGGCCT
 133261 GCTTGCTGAG GGGACAGTAG GGCTGCTTGC TTGCTAAGGG GACGGTACGC CTGCCTGATG
 133321 GCTTGATAGT AGGGCTGCTG GGCTGCTAGT AGGGCTGCTG GGCTGCTAGT AGGGCTGCTG
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 133501 GGCTGCTAGT AGGGCTGCTG GGCTGCTAGT AGGGCTGCTG GCTGGCTTGC TTGCTTGC
 133561 GCTAGTGGGG CCGCTTGCCT GCTACTAGGG CTGCTGTGCA GCTGGGAGAA CAGAGTAGGG
 133621 CTGCCGGCCA GCTCGTGCAG AGGGCGTCCG AGGGCCAGAC GAGGACACGG GACCCGGGCC
 133681 TCTCCCCCGC CGGGACCGCC GGGCACCCGG CCCAGATCT

SEQ ID NO 2

CDS nucleotides 1353-2624

SEQ ID NO 3

MFVLVLFMLLQPVSELLPAKLTSPVPTCOPHPGDTYLLTCRGTSARDQRSTQWFRNNTLMRGSNFYGRLVSVTPNATI
 SDRYACQTKTTTRSNIDFRVSSSRLTLQERCSSYGYTYANNTRVLRCYSGGNVTLRNVFHLNGTAVINGTTNIHTFV
 LTEKTGGTYFCASAFIGNEKFYSQTINVFFTSFTFKPTNDIPNESHFNKTGQIQQTASVQHPENVVFSVPVFSIGVLTGI
 AISLIMCWLFTIRCNENSESSTNSYASQTSYIOPSHNQRSNTNECSRHTYRNAHQEESIEELPNQHTSETDSCQLVLL
 VKNVAYDGPQENTINEVMEQYDDVVVKNIEQTSYEDNVEHMDYSDTINPNFNYSGLILEEVDEVFYNELENQYHGLILE
 NLDHNEYNHNLNLMIEQYDWLE

SEQ ID NO 4

CDS complement (2692..3258)

/note="dihydrofolate reductase; ORF 2; similar to Kaposi's
 sarcoma-associated herpesvirus ORF 2"

SEQ ID NO 5

MDITVNCIVAVDEQLGIGKNGTMPWPYLRNEMMYFQKMTSTPSVVGKRTWFSIPEKKRPLVNRINIILSREL
 REPPHGAHFLARTLDDAFNFYRQYKLKEQLNTVWVIGGKSVYESVNLNYKCPLKLYITRIMESFDCDVFFPSINFTEYML
 SEIPGKDTNFEENGIKYKFQVYEKNFNK

SEQ ID NO 6

CDS

3676..5613

/note="complement binding protein; ORF 4; similar to
 Kaposi's sarcoma-associated herpesvirus ORF 4"

SEQ ID NO 7

/translation="MTFKLFPLFLHAIMYVHCDENCKPPHFTEYRVKSNTEKDLYSV
 GETAELICRPGYVTNTKIIITTECLQNGTWSTPNFPCDRKRCPTPADLLNGAVHIHGGD
 NALKFGSNISYECNEGYDLIGSNVRFCILQDTENVNWDSNEPVCEIQKCIKPPAVEHG"

DYLPNQDVNYGDAITFKCSLSYTLVGGSTTLVCTSNNKWSNSFPTCLMLVCESPQIDN
 GYIDIGLSRRYNHGQSITVKCSDGYNIVGPETLTCTNTTWPPLPKCVLVTNNPSTPM
 PETPMPETPTPDYQKINLSTAKTATTPNAFVTTVVSPEKDDVTCKVPHFERFMVKAEN
 DKEKYSVGASVELICRPGFTKMQSTSVECLSNGTWTAPNAKCHRKKCPTPQELLNGE
 YIVTSGEDAFKYGTNITYKCNEGQQLLGSMVRICMLKDDLKTVDWEPKAPICDIEKCK
 PPPQITNGKYHPVKDFYQYLDFTVTFSCNRDFSLVGDEMTTCISNTWNKPFPRCEQITC
 SAPNIAHGKLLTGSSSVYKGQSVTIGCETGFTLIGSEISTCKDSSWDPLPTCVPBV
 SMPSDTPKPETKKPNTPTPEAKPKNTPNVGHTPFKPPPQNPIAPPMSKWKRHVVLV
 LFASVASLLFVLAALYCCFLK"

SEQ ID NO 8	CDS	6045..9443
<p>/note="ssDNA binding protein; ORF 6; similar to Kaposi's sarcoma-associated herpesvirus ORF 6"</p>		
SEQ ID NO 9		/translation="MASKGNAGQPLEDNQGSRAPIGACGYVYAYSQDFPFAEASILG NRPSGSGVFSLPILYGLTVEHEFPLTVKAAYKKVDTTTLAVKVTCHREVIVFHNASL FRPVFDGTGLENLCEEARALFGYQFIEPGPPHSIWNPLECPQLPKDEMFLGVVTE GFKERLWRGCLVPAVFTQQVQIAGRQAFKVPLYDEDFLFAPHGHMRMPRFYHKDVSAYL YDSLFTSIAQALRLKDTAVIHATEKQFMQDHYKIAKIVQAKQFSTTLPKTTDGSSHM IVDSVVAELALSYGCMFLECPQDACEILNYDSWPIFDGCDSPPEARVNALERWSAEQAV HVAGQLFAANSVLYLTQVKQPKQAPRGQKGDVNVYNSFFLQHGLGFLNEATIKENGSEAF KGVPNSNLDGSSFTPYHLAYAASFSPHLLAKLCYMMQFLQHHKSSTNQAFNMVHYVGT AANSEMCTLCHGNTPATCLNTLFYRLKDRFPAVTTPQRRDPYVVTGTAGTFNDLEILG NFASFRDREEDGNPADEHPKTYWQLCQTVTEKLSAIGITEDHDNVNLITNIQSFLR VFKGIDSIVDGEVMKFVNNSMIKNNFNREHVKSVHHILQFCCNVYWQAPCAVFLNLY KSLLWIIQDIDLCPYCMIEQDNPAMGILPSEWLKMHFQTLWTNFKAACLDRGVLTGCE LKIVHRDMFCDFDFTDAGSNGLMAPFKMQRVRIARAMMVVPKSIKIKNRIIFSNTAGSE AVQSGFVKPTGTRDTVVAGPYMKFLNSLHRAFLPDTKTAALYLWHKISQTNKTPVLIK DVPPDDELAELSVYVKTNSLAFEETNVLDVVPDSLMSYARIKLNAILRACQQIQFYAT TLHCLTPVLQQTIDAEEYPHVLSGAAATPVAYLAEIRGRTALTQTTARQPVAATGRL RPVITVPMVVNVKTYGVNGNNNVFHCGNLGYFAGRGVDRNLWPESSPFKKTGVSAMLRK RHVMMTPIIDRLIKRAAGQTISTFEAESVRSVQALLEDKDNPNLLKSVILEIRHLG KGCQDLSSEDVQYYLGDYCMLTDEVLTLDNIAQSGVPWTIEDAGALIEDRQDADDLQ FVDSDDIATASCQPPPEEQLPTPSAGALLAGKKRKINALLSDLDL"
SEQ ID NO 10	CDS	9468..11528
<p>/note="transport protein; ORF 7; similar to Kaposi's sarcoma-associated herpesvirus ORF 7"</p>		
SEQ ID NO 11		/translation="MARELAALYAQSLAVALDLSLVIFADPRSIDGARILKTKTQIEN LNRDPLLREQNSVETSSLSLEVEHLAKNIEDKLGEELERSLRQRYSSREHFETLHLR PECHYHSTVTQFYGGGLIDVNMCILNDVELLCKRLGSVFYCIGANEALSGLNRVLT LSTLRGISPIPHPDLYVTSVPCVQCLREIELVNPQGSSLLAVLADRHCDDHCKKVRAE PIHGLFETELSQLGLKVTKRSQDATQHGVRSQADQLRESSLAAIQDHNIFKRVSA LSNLIYWNAGQTGLQTGTENECSQMARLLTHEADMHEHRLITPKLSATHFYDCFRPD PIESLFCGGFLNSIDDTINALSRDCSVTFQQANYTVMVRKQNEFLTRLNSILRQGSA GSQKPATPSEPRTTTVATAASDVIKDAQYRKEQYMKKVARDFKKLTECLQTQSAVL ANALCMRVWGGVAYGEASELVNHFLRRRFVALPWEARCRSDQILFENSKYIKNSLYS QRLSREHVEIITLQFYGLITGPLTRQSDLFPGPANVALAQCFEAGMLPHHKMLVSEM IWPQIQPKDWIDQTFNRFYQLPEGDLNAVQKSAWCIRELVLVALYNRTWEKTLRIF SLAREKLSISNLDVKGLTSGLYLTYEQDAPLVLISQNTGWIFKDLYALLYHHLQLSDG HDDN"
SEQ ID NO 12	CDS	11515..14004
<p>/note="glycoprotein B; ORF 8; similar to Kaposi's sarcoma-associated herpesvirus ORF 8"</p>		
SEQ ID NO 13		/translation="MMITNRTRRLRAWVIIIAIGTAGENVTTPKGATTAKPTPGP STPTPPENPPRAEAFKFRVCASATGELFRFNLEKTCPGTEDKTHQEGILMVFKKNIV

PHIFKVRYYRKVATSVTVRGWTETAVTGKQEVRPVPQEINHMDTTYQCFSSMRVN
 VNGIVNTYTDRTDFTNQTVFLQPVEGLTDNIQRYFSQPVLYTTPGWFPGIYRVRTTVNC
 EIVDMIARSAEPYSYFVTALGDTVEVSPFCNDSTCSVAEKTENGLGARVLNTYTI
 FATRQPTTETRVTADSGEYTVSWKAEDPKSAVCALTLWKTFRPRAIQTTHEASYHFVAN
 DVTATFTSPLSQVTNFTGTPCLNDVIQKTLNATIKLSDTHATNGSEQYYETEGGLF
 LLWQPLTPLSLADEMRELNGETPAPPTTSTANRVRRSGTNEQATDDLAAPQLQFAY
 DKLRAISINKVLEELSRRAWCREQVRDTYMWYELSKINPTSVMTAIYGRPVSAKFVGDAI
 SVTDCVAVDQASVSIHKSLRTSTPGICYSRPPVTFRFLNSTLFGQLGPRNEIILTD
 NOVEACKETCEHYFIASNVTVYYKDYVFVKINTSEI STLGTFIALNLSFIENIDFRV
 IELYSRAEKKLGSVFDIETMFREYNYYTQRLAGLREDLDNTIDLNDRDLARDLSEIV
 ADLGDVGRTVVNVASSVITLFGSIVSGFINFIKSPFGGMLMILVIVAVVLIVFALNRR
 TNAIAQAPIRMIYPDIDKMQPSGGKVDQEIQKNILAGMHQLQQEERRRLDEQQRSAPS
 LFRRASDGLKRRFRGYKPLENEEAQEYEMSK"

SEQ ID NO 14	CDS	14122..17166
	/note="DNA polymerase; ORF 9; similar to Kaposi's sarcoma-associated herpesvirus ORF 9"	
SEQ ID NO 15	/translation="MDFFNPYLGPRGPRPHSHRGTDAPAPAGAGAVQPPPDVCRLLIPA CLRTPGAGGMIPVTPFPPTYFENGARGDVLLANERSMWTDKPVAPDPDQDSITF HAYDVVETTYAADRCAEVPSRFQTDIIPSGTVLKLLGRTEDGTSVCVNVRQQVYFYA KVPAGINVTHILQQALKNTAGRAACGFSTRVNKRILKTYDVAEHPVTEITLSSGSMI STLSDRLVACGCEVFESNVDAVRRFVLDHGFTFGWYSCARATPRLAARDARTALEFD CSWEDLSVQADRSWDPPYRIVAFDIECTGEAGFPCATRDGDAVIQISCVFTTREGAP NPPNILFSGVGTCDPIPDTDVDLEFPSEYDMLVSFFAMIRDFEVDFTLTYGYNISNFDLPLY ITRASQVYNLRLNEYTIKIKTGSIFEVHEPRGGGGFMRSVSKIKIAGIVPIDMYQVCR EKLSLSDYKLDTVAQCLGGKKEDVSYKDIPLFRSGPGRAKVGSYCVMDSVLMVDL LKMFMIHVEISEIAKLAKIQARRVLTDGQQLRVSCLLEAAARENFILPVPTEPEGQGG YQGATVINPIPGFYDEPVLVDFASLYPSIIQAHNLCYSTMIGHRDLHLHPNLTPDDY ETFVLSGGPVHFVKKHRESLLGRLTVWLEKRRAIRRTLAACDDPSLKTILDKQQLA IKVTCNAVYGFTGVASGLPCINIAETVTLRGRTMLEMSKSYVEALTTEDLRTRLGRE VTARHGFRRVYGDTSFLIACDGYSAEAVSAFCDDLAARITADLFPPPVIKLEAEKT FKCLLTLKRYIGVLLNDKVMVKGVDLIRKTACKFVQERCRAILDLVLHDPEVKA RLLCKRPPHAVYEEGLPAGFIKIVEVLNASYLDLRLNSVVPIEQLTFSTELSRPVCDY TTNLPHLAVYQKLASRCEELPQVHDIRPYFVDAPGSLKSDLAEPHDYVRQHQIPVAV DLYFDKLVHGAANILQCLFGNNADTTVAILYNFLNVPYKLFS"	
SEQ ID NO 16	CDS	17261..18511
	/note="unknown; ORF 10; similar to Kaposi's sarcoma-associated herpesvirus ORF 10"	
SEQ ID NO 17	/translation="MLVNELSVVLDWEVTFHGRGRFSFVNTRLQTFKGHGGYARVRL PFSLDQLLHQHFAFGLVTRLKELPPFSDCVALIAPLDSGGDADAARVAPGFVLDSSRP LTVVWNASGRHTIRFCLLFLKPIDLERAVTVFGENGGARSEGTPKPTCATESLPGGP LRVSGEASQTSPHSFVAYFPTANSVACSLSLRLQVRPFSSDAARHDARISPKYVTFSN SGGNVCKASVHTLSPSRCKTAQMEIIYAPGDPNAEIVLGQSGPVLPHTGGRVLGVYA DAEKTIQPGSSAEVRVQLIFQQGAAARGDLAFLVTGVAPEPLFVVTPALLSGCTTHL RLFNPNGTPTTIKRTLVAAAAPCPVVRSSADDAPRDLVASPDTGALSINAFTIPVG FPGVVAECHVSLRDNGVHERMNH"	
SEQ ID NO 18	CDS	18520..19749
	/note="unknown; ORF 11; similar to Kaposi's sarcoma-associated herpesvirus ORF 11"	
SEQ ID NO 19	/translation="MGTIVRFFRGEWQTSSLVDNGTPRYSSLVWAATIHDGYLTNV SELCVTERSPCLPACPSIGRLVKGKRFPGFAFASATLGDRGRTTVFYAFGHRDNPLDIV PAVVERADRELVLRVHAQPTTRVSRYGLKVFVIAVTVVRPPGVFLHFPQDRVPIALTD ACSQEGSRLTSEEPWIKIQGFPVLSDETAHPFLLTQKTPFTERKFCRLIMDNDQRSA VNTVYLGKQHVRVTVTRPPEIIVTDGPVTATLSLTGNAPIAFRHPYFELPPWSSTAI FTPVYYVGLTVCIPPNCFSKFRYGNVSAFNRLTAIIISNHAHNGGFRIQDCEWPPN	

REIEILVTNVSQAPVYISTGTQLGQAI FVFAPRFGGPAKLRQLLGHRSRALELPGGVT
VDSQKLCRFETMYLFST"

SEQ ID NO 20 CDS complement (19921..20544)
 /note="R2; similar to IL-6"
 /translation="MFPVVFVLFYLSWAASPTLAPPPTAAGINVLPQWAGNRASLDR
 TRGRLSEVGLNIQRWFVYLCMHSTLCRVREYPRIMSFVHFPIILMSNVECORREFRGAEC
 CMNAMVRGLRAYESYLTRLRMLDDAPGDADAAAIGSAVTVVL SALDSLIEELPVNNK
 IGGAESNEKTVRALGGQSPRDVVLSAFRILEYLQMFILRDGRRAIAMM"

SEQ ID NO 22 CDS complement (20777..21778)
 /note="thymidylate synthase; ORF 70; similar to Kaposi's
 sarcoma-associated herpesvirus ORF 70"
 /translation="MIVLVHLGICYVKKII P VCVAGIAARL R VFSAPEGAAVRCAC
 RGDHGELOQYLAHLDLIIKHGVQREDRTGVGTRSVFGLQARYNLRDEFPLTTKRVFWR
 GVVEELLWFIRGSTDSTELSRRGVKIWDAGSRAFLAAQGFGDRREGDLGPVYGFQWR
 HFGAEYRGADANYEGQGVQLRYVVDLINRRPHDRRIVMCAWNPADLARMALPPCHVL
 CQFYVARGELSCQLYQRSADMGLGVFPNIA SYALLTYLIAHTGLTPGDFVHTLDAH
 VYNNHVDPLLQLRRTPRFPRLKILRKVARLEDFTRADLSLEGYDPHPIEMEMAV"

SEQ ID NO 24 CDS complement (22245..22592)
 /note="R3; similar to Kaposi's sarcoma-associated
 herpesvirus K4 viral MIP"
 /translation="MRGLFVCVFFAVFACVVDYAFPMGMSGPAPELCCLGYVTHLPP
 PGLVVSYSHTSSQCSVDAVILNTRRGKKLCANPGDDAVKKLLQAVDKRPKKGRRTRRS
 LIDDSEEGLGSGI"

SEQ ID NO 26 CDS 26846..27409
 /note="Bcl-2 homolog; ORF 16; similar to Kaposi's
 sarcoma-associated herpesvirus ORF 16"
 /translation="MAAVQGPPPPPEEENENSLPVDVVAIEGIFLYCGLGQAEYLHHP
 VFSPIKEFISAFKLDSARLYERLLRHTDYRSLRGLNAIGQGMLQINTDGRHNWGRALA
 VLGLGAYVVDVKVDDERLLTFAIAVLPVYAYEALESQWFRSHGEWEGLRNYCERILRH
 RRNARRHMCYGVAA GLLALVALFAIRR"

SEQ ID NO 28 CDS complement (27515..29125)
 /note="capsid protein; ORF 17; similar to Kaposi's
 sarcoma-associated herpesvirus ORF 17"
 /translation="MTPVYVGYYVDVVS LPKIEKELYLEPSIVATLLPYTDPLPINIE
 HVPEAHVHTIGLFQVTHGIFCLGKLTSHDFLALASRLAGDSRAAQIQLNPMPRDPL
 EMLHTWLPELSLSSLHPEELQDPNHPAFQHVS L CALGRRGSIAVYGPDP TWWVSKF
 DSLTREEAGKITVNCLDL CERQVTPPEFAAPLETLMAKAIDAGFIRDRTDLLKTDKG
 ARVARSTYKLKASQFPCAQHCGNRDTRTMSALPEDNITIPKSTFLTMVQSSLDNMRNQG
 HRTYVSAPPSPMPATAAYPSWIPPELTVP SYAPPVAPPFFQSAFAPQPSPYATYY
 PTYGYAPAPS RHQKRKRDVELSDEPVFPGEVG I HKDVMAL SKN ILDIQADLRLDKRA
 ASQTSGAQDADQRPQPPPQFWSWPQTYASAPYLA YQPQWYSGTDTHLHAPQPYQSAQG
 IQQTQPPPQPA SHAGLATQPATPAPAAQESVMSNAIPSASAPRAGACPPLDPECQG
 SARAPVEASAQPAPVSQI QKMFCEELLK"

SEQ ID NO 30 CDS 28998..29897
 /note="unknown; ORF 18; similar to Kaposi's
 sarcoma-associated herpesvirus ORF 18"
 /translation="MFIGRGSVYGSRVATIEGSKYSSFSIFGRLLTSTYPTYTGVML
 GRCLREP KEMSAGL RGLMWRVIR CENLNTFLPGELRFLHVLCEM NYGLNVYLLKEA
 IANTGTRDDIVLGRKVPVEFWKIVYDGLKEMGVSDATLLSETKRGALWLYFNGRPCILL
 KGLGDYVFCQLGLSHSVRVVPENLTDGNYLYNLGSVIPCRLLVALSYCLAFWGHADHE
 PWVRLFAGKIFILYLIISGHIMPRKSILEQVGTSGYGGFVEAVCRDVRAVHGIPAWDF
 ASAAPALTSQQTDYLFAFNNSVV"

SEQ ID NO 31 CDS

SEQ ID NO 40 CDS complement (35865..37073)
 /note="unknown; ORF 23; similar to Kaposi's sarcoma-associated herpesvirus ORF 23"
 /translation="MIKISDLKARLVGGAVQLSNGEYVCHVVYSSALAAMVGLPGPAVPLPLLFKKFSTIYSNMMPLYAPKRPELSMLRIMSPHPYALNSCLCVGTDEGERGVSLFRDPVIRSSDFEDTPITVNSKLVIASNSLFLHCRPFSVPATVKTPVTLTNNKQITINELANTTQEYDPNAPPTLCSALPPDNKKLRSILKQPPATSENVQSDCLLADIFFAMGSRQPQIGESPIATFNTVTIMQRANNSIMFLPNLKLKPIQHFLKHVLLQRLGLENILFHFKMLYANTCKAAGPYQREYFESMLSRVKQRLEDMVFCLNSIESHDQKDFRVLRSAPOQRLLTATDKYFLMFPPQNRELAIQVGAEVIESICDGTPLEVLANLSPRTIQTGNNLLKFYALLTV"

SEQ ID NO 42 CDS complement (37123..39321)
 /note="unknown; ORF 24; similar to Kaposi's sarcoma-associated herpesvirus ORF 24"
 /translation="MLLQGPVLLPACPATVAANAPSPANSDFKTQLAIFCCLATNNEILENVSLEALDRAMQTEFTFYACRALRRLVLGEGLYPFIHRQGGIVGKTGNEYAGPGLIIDDAIGCTFSHIETHFLPTVFTYELSDTVLVSDERILRSLYCSPLMVCVGNYQSMFRLCRYLQIWEFEECFAAFTRTLPEHLIGTCYQNYFKLLEPFKILTLARCPPCAKLHLNYLKFNILGFTSDWISHPELHRVQTVIIHNIESNPVLLKNLSKQNKFDIKVASELIIDYQNIVNQSLDVNLQVKINKDPGKKPYKVVVTPKSTYYLTFPPEVPIFRVMCMSVAEHVCHSCDRLLYPNTEFLGPGETPRVLEAMFSRIQYAPKDRDYNFIFNADQNPDRYEQARHDHQTEPLPDMFDPVKHMSLHNFKISVFNTNMVINTKITCWSLAGTFESIIDIPIRLTNNFVMKKFSVKEPSFTVSFVSYSDNLNCNGAAINVNISGDMHLHMFAMGNLRCFLPVKHFIFPVSIANWNSTLDLHGLENYQIVRRGRDRVWTTNFPSVVSNDGCNVSWFKAATA TISKIYGRPLLKKLSDELNPILSVPYARIDQVKNTIFTLETTRNKAQIQTLLHKRFIECLVECCSFLRLDLGALNRAARLGTDFSKRIISHTKSHECAILGYKKCNLIPKIVRSKKIRLDELGRNANFMSFIATTGHAFSNLKPQVIRHTIRRLGLHWRHKAKI"

SEQ ID NO 44 CDS 39323..43459
 /note="major capsid protein; ORF 25; similar to Kaposi's sarcoma-associated herpesvirus ORF 25"
 /translation="MEAALEVRPFPMATEANLLRQMKEASAASGLFKSFQLLLGDAREGGVQFEGLLGVYTNVIQFVFKLETSLAVACVNTEFKDLKRMTDGKIQFKVSVPTIAYGDGRRPTKQKQYIIMKACNKHHIGAEIELSTDDIELLFIDRETPLDYTEYAGAVKTITASLQFGVDALERGLVDTVLNVKLRSAAPPMFILKTLSDPVYTERGLKKAVKSDMVSMSFKSYLMDNSFFLDKSDIAVKGKQYVLSVLSDMVGAVCHETVFKGTNTYLSASGEPIAGVMETTENVMRKLLNMLGQVDGGMSGPASYANYVVRGENLVTAVTYGRVMRTFDQFMKRVDRPNAQPSVDDDRDAVADGQDSLAKTPIAAAVIQIGDKLVAESLQRMYNETQFPFPLNRRMHYTYFFPIGLHMPRQPQYSTSATIKGEVHPAEQSVETWIVNKNNVLLSFNYQNALKSICHPRMHNPMPCGQALQAFPDPGHVHRYGQRSEHPPNMNLGYLVNYYQGKNAVHPVDVALKATMTTDELLHPTSHETLRLEVHMPDFFVHQOPGAQAAYRATHRTMVGNIQPLAPNEFQNSRGLQFDRAAAVAHLDQSTMIIQDQAFDTSPLLCYVIECLIHQE DKFLINSPLIALTIETYWNNAKGKLAFINSPMLRFICVHLCNGSISKDVAHYRKVFGELVVLQQALSKIAGHEVVGRPASELINCLQDPNLLPPFAYNDVFTNLLRQSSRHPMV LIGDEGYETENDRDTYINVRGKMEDLVGDMVNIVETRNNADHGRHVLDVGPNEEQ HMAVLEKLFFYYVVLPACTNGHVGCMGVDFNVALALTYNGPVFADVNPDEILDHLE NGTLREMLEASDIHPTVDMIRTLCTSFLTCPFTQASRVTQDPAQLLTTDGRYV SQTVLVNGFAAFAIADRSRDVAETMFYPPVFTKLYSDPLVAATLHPLVANYVTRLPAQRVPVAFNVPALMAEYEEWHKSPMLAYANTCPMTPTSLSTLASMHMKLSAPGFICHAK HKIHPGFAMTAVRTDEVLAENLLFSARASTSMFLGQPSVMRREVRAAVTFEVNHEA SLDMALGYSSTITPAHVAAITSDMGVHCQDMFLMFPGDSYQDRTLNDYVKQKAGCQRF GGGQIREPVAYVAGVPHSDNIPGLSHGQLATCEIVLTPVTADVTYFQTPNSPRGRAS CVISCDAYNNEAERLLFDHSIPDSAYEYRTTVNPWASQQGSLGDVLYNSTSRSQVAVP GMYSPCRQFFHKDAILRNNRGLNTLVTEYAAARLTGTPATSATDLQYVVVNGTDVFLEQ PCQFLQEAFPTLAAASHRSLLDEYMSNKLTHAPVHMGHMYIEEVAPMKRLLKIGNKVAY

SEQ ID NO 45 CDS 39323..43459
 /note="major capsid protein; ORF 25; similar to Kaposi's sarcoma-associated herpesvirus ORF 25"
 /translation="MEAALEVRPFPMATEANLLRQMKEASAASGLFKSFQLLLGDAREGGVQFEGLLGVYTNVIQFVFKLETSLAVACVNTEFKDLKRMTDGKIQFKVSVPTIAYGDGRRPTKQKQYIIMKACNKHHIGAEIELSTDDIELLFIDRETPLDYTEYAGAVKTITASLQFGVDALERGLVDTVLNVKLRSAAPPMFILKTLSDPVYTERGLKKAVKSDMVSMSFKSYLMDNSFFLDKSDIAVKGKQYVLSVLSDMVGAVCHETVFKGTNTYLSASGEPIAGVMETTENVMRKLLNMLGQVDGGMSGPASYANYVVRGENLVTAVTYGRVMRTFDQFMKRVDRPNAQPSVDDDRDAVADGQDSLAKTPIAAAVIQIGDKLVAESLQRMYNETQFPFPLNRRMHYTYFFPIGLHMPRQPQYSTSATIKGEVHPAEQSVETWIVNKNNVLLSFNYQNALKSICHPRMHNPMPCGQALQAFPDPGHVHRYGQRSEHPPNMNLGYLVNYYQGKNAVHPVDVALKATMTTDELLHPTSHETLRLEVHMPDFFVHQOPGAQAAYRATHRTMVGNIQPLAPNEFQNSRGLQFDRAAAVAHLDQSTMIIQDQAFDTSPLLCYVIECLIHQE DKFLINSPLIALTIETYWNNAKGKLAFINSPMLRFICVHLCNGSISKDVAHYRKVFGELVVLQQALSKIAGHEVVGRPASELINCLQDPNLLPPFAYNDVFTNLLRQSSRHPMV LIGDEGYETENDRDTYINVRGKMEDLVGDMVNIVETRNNADHGRHVLDVGPNEEQ HMAVLEKLFFYYVVLPACTNGHVGCMGVDFNVALALTYNGPVFADVNPDEILDHLE NGTLREMLEASDIHPTVDMIRTLCTSFLTCPFTQASRVTQDPAQLLTTDGRYV SQTVLVNGFAAFAIADRSRDVAETMFYPPVFTKLYSDPLVAATLHPLVANYVTRLPAQRVPVAFNVPALMAEYEEWHKSPMLAYANTCPMTPTSLSTLASMHMKLSAPGFICHAK HKIHPGFAMTAVRTDEVLAENLLFSARASTSMFLGQPSVMRREVRAAVTFEVNHEA SLDMALGYSSTITPAHVAAITSDMGVHCQDMFLMFPGDSYQDRTLNDYVKQKAGCQRF GGGQIREPVAYVAGVPHSDNIPGLSHGQLATCEIVLTPVTADVTYFQTPNSPRGRAS CVISCDAYNNEAERLLFDHSIPDSAYEYRTTVNPWASQQGSLGDVLYNSTSRSQVAVP GMYSPCRQFFHKDAILRNNRGLNTLVTEYAAARLTGTPATSATDLQYVVVNGTDVFLEQ PCQFLQEAFPTLAAASHRSLLDEYMSNKLTHAPVHMGHMYIEEVAPMKRLLKIGNKVAY

SEQ ID NO 46 CDS 43491..44408
 /note="capsid protein; ORF 26; similar to Kaposi's sarcoma-associated herpesvirus ORF 26"
 /translation="MALDKSIVVSVTSRLFADEIANLQSKIGCILPLRDAHRLQNIQA LGLGNLCSRDSAVDFIQAHYLDKCTLAVLEEVGPNSRLTRIDPMNDNYQIKNAYQPA FHWDNYSELVVIIPPVFRKDATVSLESNGFDVVFPAVVPEPLAQTVLQKLLLYNIYR VAETTPTDVNLAEVTLTTNITYMGRNYALDVDPVGSSSAMRMLDDLSIYLCVLSALI PRGCVRLLTSLVLRHNKHELVEIFEGVVPPEVQALDLNNVSADDITRMGALITYLRSL SSIFNLGRRFHVYAFSSDTNTASCWCAYN"

SEQ ID NO 47 CDS 44433..45242
 /note="unknown; ORF 27; similar to Kaposi's sarcoma-associated herpesvirus ORF 27"
 /translation="MSIPKIMTVSRDNEGTVCCEVAVDNGRHRAMIYPKTTNLANERA DVVKEAFDTETPVDIVKQIVNEGLAISKKNCVRLALYLYFYLQYVCFALLLTWQLNPY MDPGGLVFAVNPMGPKHVTKLPHPAIVAVGCGADAICKNCSPDIKTELGMVYHNGSS DSGQRAHYGLALLKAAWLVGMGNVCPPEPVVRQGAALLGPWRNTEWSDFKSAMAATTFCG SRGVLWSPSPIHEKNLCRPTWNDVINTSVFTNESLCPNIPVVPESVIVLNGDA"

SEQ ID NO 48 CDS 44433..45242
 /note="unknown; ORF 27; similar to Kaposi's sarcoma-associated herpesvirus ORF 27"
 /translation="MSIPKIMTVSRDNEGTVCCEVAVDNGRHRAMIYPKTTNLANERA DVVKEAFDTETPVDIVKQIVNEGLAISKKNCVRLALYLYFYLQYVCFALLLTWQLNPY MDPGGLVFAVNPMGPKHVTKLPHPAIVAVGCGADAICKNCSPDIKTELGMVYHNGSS DSGQRAHYGLALLKAAWLVGMGNVCPPEPVVRQGAALLGPWRNTEWSDFKSAMAATTFCG SRGVLWSPSPIHEKNLCRPTWNDVINTSVFTNESLCPNIPVVPESVIVLNGDA"

SEQ ID NO 49 CDS 45408..45683
 /note="unknown; ORF 28; similar to Kaposi's sarcoma-associated herpesvirus ORF 28"
 /translation="MTAHTNGVLTTTGFSTSQPESVQVSPFYRVITKPPVMGLFFCVA MCVIALVWYVMRRVCCKGRRVADSCRDPHQPAYEMLNVRLRPHGTNP"

SEQ ID NO 50 CDS complement(45733..46779)
 /note="unknown; ORF 29b; similar to Kaposi's sarcoma-associated herpesvirus ORF 29b"
 /translation="MLQKDAKLIIFISSNSSDKSTSFLNLKDAHEKMLNVVNYVCPD HKDDDFNLQDTVVACPCYRLHIPAYITIDETVRSTTNLFLEGAFSTELMGDAATSAQSM HKIVSDSSLSQLDLCRVKSTSQDIQGAMKPCLVHVVIDPAYTNNTDASGTGIGAVIAVN HKVIKICILLGVHFFLRLDTGTAAQIASCALIRAIVTLHPQITHVNVAVEGNSSQ DAGVAIATVNEICSVPLSFLHHVDKNTLIRSPIYMLGPEKAKAFESFIYALNSGTF S ASQTVVSHTIKLSFDPVAYLIDQIKAIRCIPLKDGHTYCAKQKTMSSDDVLVAAMAH YMATNDKFVFKSLE"

SEQ ID NO 51 CDS 46905..47135
 /note="unknown; ORF 30; similar to Kaposi's sarcoma-associated herpesvirus ORF 30"
 /translation="MENDTPKDKISEADFQQCQAFFHRPIRDLISSLGADALNHFSLSE SDGHKLERIVLLLVLGVTECLSYTTIAAKNVK"

SEQ ID NO 52 CDS 47093..47746
 /note="unknown; ORF 31; similar to Kaposi's sarcoma-associated herpesvirus ORF 31"
 /translation="MSLLYHDRCKECQMTRVNSPICRFHNVSNLYQCLDCKRYHVCVG GRNCVIVYVRENLCVCDLTGNCVLDNVQDVCSYGPERRVPDAFIDPLVSHGTRECLKS DILRYFETGVKSEAYSTVVKNGQLNGIIGRLIDATFNECLPVMSDGEGGRDLAASIY IHIIISIYSTKTVYDNLFKCTRNNKYDHIVKTIRAQWMRMVSTGDPRSRVSATGCFT"

SEQ ID NO 53 CDS 47683..49077
 /note="unknown; ORF 32; similar to Kaposi's sarcoma-associated herpesvirus ORF 32"
 /translation="MDAHGLNRRSVAGQCDGLFHVILPRGFILANNITCGERQRFFAH TWFAASGRTSKTLVWGRVFQNTDPGRGDGPGWSGLAISLPLFTTNGKFHPFDVVI

WO 00/28040

PCT/US99/26260

LKADTPDSGSSTVKFLYMSLIAAYRNAMRGLKDKVSQCTDAAVDGEVHPLTVLKEAL
 VSPDTATRPPVACNPLQMLTGLLQSRVRDDYVTHRALERPGNVRGQVIAPTRTEMPN
 GSPSRVRLGFRPPKQANYPKTWAQARHFSSRAYYVCVYDNEELDTKWQRQDPRPLPL
 DWSDPVAYLLEGDLFLGAKQNAFVDSIEKTCRCQNYTIKQFFPVLIINRDNETVDLIE
 HFIEACFVIRNQVSERSAWVKAALFRNDSNTYWKDVLGLWEHGPHKLGTAIKLPTSEP
 CNADVNWSWLLCDEDITRSISGQSTVCLVSPVTLTAWLVLPGGFVIKGRYDLSSEDM
 FVASRYGHPASSHS"

SEQ ID NO 60	CDS	49049..50059
		/note="unknown; ORF 33; similar to Kaposi's sarcoma-associated herpesvirus ORF 33" /translation="MATQRRHILKSFLNKECIWLRHPGTSAFVRVYTATTAAHSAVFDP PVTSENAMSLNFLNVIMIVIMKPEFGPCVTVMNGDILDFCATESVAIRDVPGRADLC LIRFGTLSNAPRSVPPIPGLPNPHPRETVPGLTKQEIIYTSQTVPRGQIPDAIKGKEFH QINPFLWFDGGAFWQLFLSVDFMLLCPALDTVPSLARIVGLLTQCDKSTCKICTGAHV HVNPYRGYTPDSDQGTSPCPLISCGARRAADVLVTGHVNLLGLLFDPKASPKVTKL RLKRNPRPVPIEDAMSGVTAEGTEVQPTSLPWALIRLPDLASRVMLYGCQNLKSICLR SY"
SEQ ID NO 61	CDS	complement (49977..50960)
SEQ ID NO 62	CDS	/note="unknown; ORF 29a; similar to Kaposi's sarcoma-associated herpesvirus ORF 29a" /translation="MLLTSYRERLQNNLRVVTDGGCENWFRQPPVIISGNDKTERMAH PCLGVIHAVNAYSSVLLDDYLQTYRRVQEPMPAPTLGKPRISSHATLPRLTEELTNYLK QTCCRQMANAKDQYMEYQSAQRTHEAFLECPVYAELRQFLANLSSFLNGSYVPGVCC LEPFQQQLIMHTFYFIASIKAPEKTHQLFATFKQHFGFLFETTDVLQTFKQKASVFI PRRHGKTWIVVAAIISVLLSSVENHVGYVAHQKHVANAVFSEVIATLSRWFPAKNLNI KKENGTVIYASPGRRPSSLMCATCFNKNVSRFCFLSSGSRIASRDWLNPAGE"
SEQ ID NO 63	CDS	50959..51942
SEQ ID NO 64	CDS	/note="unknown; ORF 34; similar to Kaposi's sarcoma-associated herpesvirus ORF 34" /translation="MFPSSFLNNNGHPETERRFVKGVLQALDLCDNTPGQFKLVETPLN SFLLVSNVLPESRPVRDCPQPEGDFEHILPKLTRMRQVLGRYCDHVNNDDTCVNWK ASSNSNQGALFYLPYQGDEWNWALTLLRKDKLVKMAVEGLSNPTWKGLEPVDPLPLI LLFYGSRSFCREPECLYERNFGMKGPILLPPHMYAPQKDVMFTVHHVIKYVKFLYVNA GGGLETEPSPPFEEASRLRAAIARLGDEADDAYLSAKCMLCHLYKQNDTISIHETHVG GVIALGGDGARYITSSVRAQRCTSRGDFVLIPLYNIEGLVSMIREHGLGSS"
SEQ ID NO 65	CDS	51923..52372
SEQ ID NO 66	CDS	/note="unknown; ORF 35; similar to Kaposi's sarcoma-associated herpesvirus ORF 35" /translation="MASAAAKKMLIKSELESEIINKLISIVFDRFGADSAVFNAQYKG TRESLRSYNSLKKDDLATVVGTLTSLREKQSELGLLKGFNRKKIEEFDAVADAVRD LKDELYGELEILGTLDNESVPVEEESPKDDIIRWKLERLPRVCPKSP"
SEQ ID NO 67	CDS	52278..53585
SEQ ID NO 68	CDS	/note="kinase; ORF 36; similar to Kaposi's sarcoma-associated herpesvirus ORF 36" /translation="MNLFPWKKSPPTTLLGGNWSVCPECAPKALDPIPKVQTDVDRT ASSHITVIKTRKTIAQLKIPNNWGQCSHQATDWTAVLGRGSYGVVRMSLGRCVKHFG SRREFFYECIFNDIVRACREKHPNLRGGDRILCFLEPCVPCRALIFPQLTGNLLNADL KHVNPERLAVEFSELREGVSFLNNICGIVHCDISPENILIKGELTTAYGRLMIGDLS ASLHTGTPWTGVMVTSKLGVQHTYHFKAPARFICKHIYRPSCLLYRCLLSCAGGPQA HMLNQPFQITPQLGLTIDISSLGYSLLACLEKYLQPADPFPQQGALADASSEAHPLF YLRCMVPRVIAEIFSVAWDVPLDGLGIDSSGHAPAIPLREAYRRFFANQCSLYRAQYK EDALENASSRLCNSKLLQKLLVRDYFSHCGNCGDHGFPLR"
SEQ ID NO 69	CDS	

SEQ ID NO 70	CDS	53566..55008 /note="alkaline exonuclease; ORF 37; similar to Kaposi's sarcoma-associated herpesvirus ORF 37" /translation="MDFFSDEPMVQEMALLDIDEQQRLLSKMSLANFLKHERVRAFFS DNKKEISMPAIRFVYNFYLFAKVGVDFIGNTDVFYVTCVFRGRRLTRLSEVYDACLNDNPHDRHHVCALIEQVTRGQNINPLWDALRDGIISSSKFHWAIKQQNSSKKIFNPWPI VNNHFVAGPLAFGLRCEEVVKKILATLLHPGEAHCENYGFMQSPLNGVFGVSLDFGIN VRSDPKDGLFHPDCKIYEIKCRFKYTFSKMECDPIYAAYAKLYQKPSMQLKGFLYS ISKPAIEFVGEDRLPSESDYLVAYDKEWEVCPRKKRLLTAVHHLVKKCMIHNSTAPSD VYILSDPQETGGQINIKAHLSANLFINVRHPYYYQVLLQSLVVQEYISLSKGTKNLGT QKNFIAATGFFRKROFQDPSCCTIGEFAPLDPHVEIPTLLIVTPVYFPSVAKHQLVKQA TEFWAASAREAFPELPWDLSSLCANAPPTP"
SEQ ID NO 72	CDS	54963..55172 /note="unknown; ORF 38; similar to Kaposi's sarcoma-associated herpesvirus ORF 38" /translation="MGFILSVCKRPTNTVDVKGEPIDVSKEFDPIIGEESIVLLTADG TAPAALYKPKTKPSKHKNNKLSDFV"
SEQ ID NO 74	CDS	complement (55255..56391) /note="glycoprotein M; ORF 39; similar to Kaposi's sarcoma-associated herpesvirus ORF 39" /translation="MKISRSDSFILSSWVKLVLVILGLMFIMSAVPLTATFPGLGFPC YFNTLVNYSALNLTVRSSAKHLPTLFLAPEMFVYISWAFLVDGYLLCYYAWAILAFKAKRVHATTMTSLQTWIVLIGSHSVVFFMSILRLWTIQLFIHVLSYKHILLASFVYCI HFCLSFTHVQAMISCNASATWSLRVLEQQIPENSLLDTLLRYGKPIGANLYLISLIAMEM LVFSLGTMMAIGNSFYMLVSDIVFGSINLFFVLTIAWYINTEFLVVKYLKHQIGFYVG VFVSYLILLLPVVRYDKVFISASLHKVIAVNISMIPITCILAIILRIIRNDWKWCAKS PEYAPLPQGPKEKTTKVVKYSPELNALYETEEDVSDYEDAYPKYI"
SEQ ID NO 76	CDS	56526..57932 /note="helicase/primase; ORF 40; similar to Kaposi's sarcoma-associated herpesvirus ORF 40" /translation="MNAREVALTGHLHISLHSTHEREKLIWIWQVHLLVCQQCGIQGD AAYLFVTETLSNTDWGNIPAINRHAPSINEHGRNYMQWELRTRLNRNPIIQLLSRQPGAAVNVRVSEPNMVIVGCERALDHSCSRVVTGAYLHCDTMDFSLDSVSPTRFWFSEMF SHCLVSNIEVYLKTTGGLYYRASSATQCRKRAKGALGILDIFNCESEIIVAGQKYTLSIATATFHVWVDEACMWNGALAEFFRALHNKLFGDREGVAPTLTYVCPGATPEGTP FPPYFSAFPHLPLVFGRRRLDVTAVQELPKAQIAVHWPPFKDSILGDQLLIPGISPK KPGTVPVWRWPLWVEDVNLSCETTESVARIVDPHSIVIIKFSSLQCQLKCHRAFKNELEYIATICSSDLRLFIQEEYNRLLATIFTWAAASGYTWAAIDKTTVFIKAPQLSAAV SGFCPSLNSCRRKQCYEG"
SEQ ID NO 78	CDS	57917..58528 /note="helicase/primase; ORF 41; similar to Kaposi's sarcoma-associated herpesvirus ORF 41" /translation="MLRRLKITVHFLSQEQQQVVTRLAEHLGLPVQETSHPPDWLKCE VCSASVFLKIPAGVLYAGLARDPTREAKRDSWLDCLVEGATLLNNNSVLPIGALAGIL PTLFANRRCVNFWLLPRAWVKSAPICPPLPIDCVPQFVVTKRGPICWYKEWPLPVD VDFMYYLQEALCVFSVVSNGEGTESHADNIRQLEKFEKVLCLF"
SEQ ID NO 80	CDS	complement (58525..59343) /note="unknown; ORF 42; similar to Kaposi's sarcoma-associated herpesvirus ORF 42" /translation="MDQILKRLMGEQHRSEAVMPETECSSRGPYNYPVFPRLMLEVHK KNSICMASNTPKLCVRGRLNVPDLGVHVRTRLQSATFTGFVFACVVEHEDMIDALDIY"
SEQ ID NO 81		

PHVFSDRVQLFKPASASVTELCCILSMLENYDKPPLSFILSALDRARYLHERYTCNDS
AFVLYGIEVIASTLAAAYHELNPPQGILRVPPLVRFKLHKLLDENADDMKGLLKIYLE
SFRLTENVGEEEHAETFNIFYCGTIFTRHLHNASVLKYFQITSLHSIPRQTLF"

SEQ ID NO 82	CDS	complement (59297..61027) /note="capsid protein; ORF 43; similar to Kaposi's sarcoma-associated herpesvirus ORF 43" /translation="MFKMNPGFGSTCLVHPTELSIISLFEILQGKYAYVRGQTLHSSLRNPGIFGRQLFIHLYKTA LGSCTYDNVLKDWTNFETTLKTRWRGVEHTLPEFKRSTFESWARTVRLTV DQLLNTINQLHTRTVLSYERYVDWVVALGLVPIVRRTPDGDTIARIQAH CQMRKTYASGDVTISRIVDKLAQEITSIMTDVTSIYIPDYAE VSVEFNGDKAAYLGTYRQKDI TVEVVS RPIIYNGRVA FDSP LYR LFTA IMT CHRTAE HAKLC CQLLN TAPLK ALVG STC NDMY KDI LAR LEQ SSQ KTDP KRE LLN L I K LA EN K T V S G I T D V V E D F V T D V S Q N I V D K N K L F G T G T E S T T Q G L R K Q V S N T V F K C L T N Q I N E Q F D T I S N L E K R D Y V K K I Q C I E T Q L L Q S L P E G G R P R H D I N I L T Q N T L Q A L S G L R P T I N L S E C H I P K G S S V V N F F S Q Y V P P F M E M L K E L T S L W E G E M F Q T Y N L T P V V D N Q G Q R T S I A Y S Q D T V S I L L G P F T Y E A S N G G A A P I "
SEQ ID NO 84	CDS	60966..63338 /note="helicase/primase; ORF 44; similar to Kaposi's sarcoma-associated herpesvirus ORF 44" /translation="MESSVGWTKHVEPNPGFILNMTSDAKVRGVVDHVSRLSNITTSP PEMGWYDLaFDPAEDSGPFLPFTVYLITGTAGAKSTSISALYQNLNCLITGATTIAA QNLSSRRLKTFCP TIFSAFGFKSRHINIAVRKAHQ GTGAVSIEQIQQQELSKYWPVIVDI MKEVMAKKP NGMYGTIS NANFETLS RMTGP CWL TSN I I V D E A G T L S S Y I L T T V V F F Y W FL N S W L N T P L Y R Q G A V P C I C V G S P T Q T N A F Q S T Y N H G T Q K T E I S S C E N I L T F M I G K K V V S E Y V H L E R N L F A L F L H S E V K A Y L T N L H C T L G G D T R D T K L F T C P V V C E V F V K P F E Y Y K R A V N L T N L T V T V E W T K N L F K L S N Y S Q F V D Q D M S I V A T E S T E R S T Q V T F I T K F V K N S H V S L N G K T K K C I C G F Q G T Y F E K R I L D S E L F V E T H S Q D R P E Y V Y G F L N T L Y N A M Y S F H A Y G V T R S H E K Y L Q D L K F A P L P A A L T G R V D L Q T V R E E L N L E D D I F Y H V C S P P P A G I T Y V V A I R N V S N Y L V M D S N P L K T L L R E P V D N T S A K H I V R A L H N P N T L I Y "
SEQ ID NO 86	CDS	complement (63379..64437) /note="unknown; ORF 45; similar to Kaposi's sarcoma-associated herpesvirus ORF 45" /translation="MAMFLSDPSRTPPATPRMLPIPGAPRK KRT RFL FAGS RTGL PV PP G Y G G P P V I D M T A P E D V F D Q D S P P T P K T P D E T D H S E N D Y S D V D E E P V S P P R I D P H A R G E S F N Q S G R L P T V I T S G T P P S A P A L T A F G G P R P V A V V T G Q H R A P Q S R E S D S E D D F F I D D Y E T D E S G G E A D G F S P R A S P A W S G D I S R S P A E G G W S D E E P V V A G T Q G Q R T S I I I S D D D E V D D R G S V E T W D E S D A D E G T G A T D V I D L C S S D D D A H V T G Q G Q R T S I A Y S Q D T V S I L L G P F T Y E A S N G G A A P I "
SEQ ID NO 87	CDS	complement (64479..65246) /note="uracil DNA glucosidase; ORF 46; similar to Kaposi's sarcoma-associated herpesvirus ORF 46" /translation="MEGWLKTIVWSKMSPEV L E E P S T Q T L L S D S W L E F L N L S P F L K Q K A L L K R V M D M S N V T V I Y P P I D R I M W S Y C C E P E D I K V I L G Q D P Y H R Q A T G L A F S V A P D Y S I P P S L K N I F K E I A N T V P G F T A P S H G C L D C W A R G V L L N T I L T V E R G K A G S H A N L G W D W F T S Y I I S C L S A K L Q R C V F M L W G R K A I D K A T L I N G Q R H L V L K A R H P S P L A T A H A T G S P W P O F L G C N H F K L A N D Y L V Q N R R G A V D W N I N "
SEQ ID NO 88	CDS	complement (64479..65246) /note="uracil DNA glucosidase; ORF 46; similar to Kaposi's sarcoma-associated herpesvirus ORF 46" /translation="MEGWLKTIVWSKMSPEV L E E P S T Q T L L S D S W L E F L N L S P F L K Q K A L L K R V M D M S N V T V I Y P P I D R I M W S Y C C E P E D I K V I L G Q D P Y H R Q A T G L A F S V A P D Y S I P P S L K N I F K E I A N T V P G F T A P S H G C L D C W A R G V L L N T I L T V E R G K A G S H A N L G W D W F T S Y I I S C L S A K L Q R C V F M L W G R K A I D K A T L I N G Q R H L V L K A R H P S P L A T A H A T G S P W P O F L G C N H F K L A N D Y L V Q N R R G A V D W N I N "
SEQ ID NO 89	CDS	complement (64479..65246) /note="uracil DNA glucosidase; ORF 46; similar to Kaposi's sarcoma-associated herpesvirus ORF 46" /translation="MEGWLKTIVWSKMSPEV L E E P S T Q T L L S D S W L E F L N L S P F L K Q K A L L K R V M D M S N V T V I Y P P I D R I M W S Y C C E P E D I K V I L G Q D P Y H R Q A T G L A F S V A P D Y S I P P S L K N I F K E I A N T V P G F T A P S H G C L D C W A R G V L L N T I L T V E R G K A G S H A N L G W D W F T S Y I I S C L S A K L Q R C V F M L W G R K A I D K A T L I N G Q R H L V L K A R H P S P L A T A H A T G S P W P O F L G C N H F K L A N D Y L V Q N R R G A V D W N I N "

SEQ ID NO 90 CDS complement (65222..65731)
 /note="glycoprotein L; ORF 47; similar to Kaposi's sarcoma-associated herpesvirus ORF 47"
 /translation="MRSMYTLSLFITCGFFLITCCTGLVVNPCCCKIPLSDFIFPEPF
 EIASFHLTNLALCPGLCTATLRYKADRSTTEICVNGFHLRAFFIRILYKLNYSVPREE
 LQLLNMYMQYSLDEFIAEFDHINGSESGTAYTRPPLDFSDRSTKVSIRKVTTRG
 DLWRVGLKQ"

SEQ ID NO 92 CDS complement (65999..67168)
 /note="unknown; ORF 48; similar to Kaposi's sarcoma-associated herpesvirus ORF 48"
 /translation="MAVSIPVKGVNRETESNWRISIVTTFERHGNADRAIRSLRFFKG
 VDHPGFLASLVIKLDVTIDSEKTIERTDLIPLLQGVRFVTQQIYMHLDHASESPMAE
 IWRDCKERFLCALELACGCQRCASAARQLRACQQACRPPKLNPHKQQCVAARLLTAVY
 NQMVLTRVSVSEFCNLALMCVPREFGFVSGDVRVETSRVASCLNLSWLYLILDSYVR
 TDLTNLEMAMSACRIGHLSAGDPFYSALVWLKNSYACDTNTFFTVNSTVTPILM
 DICASLTGVPVDVVIKINMLPLVNDQMHPSVCVERANFTGSCPKVSPTHLDGLKLETT
 SLTAAADSLLDILQALELICGDDEGILD SYISDINTETEVDESSIEEEIVFEELS"

SEQ ID NO 94 CDS complement (67398..68303)
 /note="unknown; ORF 49; similar to Kaposi's sarcoma-associated herpesvirus ORF 49"
 /translation="MSRHYGKDHLNHMYKFHYPLGMIVGEMNTLTVNARNPLYQAA
 TLRVERALYLSKILQVLMQHROGERFIVPQCRSNMVYCLKELHKITNDRIRGLINSVL
 PLVDAGCVGFDEELVRLPEILKLEYPHAHELLPPHDPTSPLSWCLSHMVGVTKTFKG
 EVKEMIDTFHDLSPVPSFQYLASLVKKFFLVEEVIEDYQDTQFNVFLNLCCFFWTIVK
 MYQSCIFKDLLDTIKACIELLKGEARQFFGWYDNLTPNLGSSALVKYTEHLIRALSV
 DSSAIPIGEICSHLHHCKHALLNLE"

SEQ ID NO 95 CDS 68494..70038
 /note="transactivator; ORF 50; similar to Kaposi's sarcoma-associated herpesvirus ORF 50"
 /translation="MECASLGPIISGLIADLNLFNLFCLYRGSRVKTRGAATCNVPCAE
 CAQGIVRILTERALCCTEKMFIAASACSGVVIPIPQLARVLHDVYAEAKCAGWRRLI
 CCRRPIMAIADSVLVTYNTLDAEGKLELRLKALCKLKVQPIFLQRILAPMQLLNGKM
 VPDNYFTITGTAEKRRPVVTGSTSGMTCPGSSLVPDSLILPVCEPGLLPAPLVDLSNV
 LENPEIILSAPPPLSQFVITNTHPSLPQSIVIITPTQGVPGQCFMDTWKAVSQSIHHQ
 AQTPILAAALTGSTSAAPGPHIACSPVAGTSRQVEGSAGVDCGKpacVPQPALPPNVP
 AKRMETVAQLGNAPVKNVHIGGRVYAPLVNIPIDIITSPSGSGSPADIANTPESRMA
 AGSPPFAETAATVPAKRKQPREDVADKRLKGDVRAATVNHPFGPSGMVRREQGLFD
 LIESTSTDVTANASGPKNDDMLAAILQDLYGLQSPPAIDSPSSNSDNEEIFPEVSPPS
 SGHGSP"

SEQ ID NO 97 CDS 70355..70888
 /note="R4"
 /translation="MPRVKTQPKRPQVLEFMPLDLHGHTHEMDSDQNLCPDGQDLLGS
 YIYTENNGPFSQIMHNGQSNTGTGESFGSYAAGDGFLLGSVSGMYGNNTGEGACSKRP
 SACRKRSAAALIHAASEASVAEQGTSQGAHAVSDRIGRDGGADNRLLKVSARLSDKTKS
 ALRSHPCLRCYSLMFNT"

SEQ ID NO 98 CDS 71468..72160
 /note="R5"
 /translation="MGFGNIRLGWRLCFMVWVAXIARGRSVCPTWHLTDGKYEAVYRH
 YLEECRKHEGSGSLDGSGQTKGSGTKATTEANISIRPNVVTSGQNKEPPGTAPRAESS
 HDLPRIKQVNALRLSTPELAQPLPVVKSTPRESQSGGTPWNARPHAFIMHTNDLNPS

VVLSFRAIRARSTRDTEQSVRDRNTVTTSYRTPGRPSLFQARPSSHGARLPPSPRTMA
RYAESRTICDQN"

SEQ ID NO 102 CDS complement (72401..72820)
 /note="unknown; ORF 52; similar to Kaposi's sarcoma-associated herpesvirus ORF 52"
 /translation="MSSTRPKTRAPKKELTMEELAAQVQKLSVENKQLKKLINSGDPT RSGSDPVISNTEKEAKIAAAVSALCNVATRKIEAKVRAATAKAVTRGQMEDALAGISI RVDVSMDETTRGIAASADGALRRRAQSRTRNNDAD"

SEQ ID NO 103 CDS complement (72884..73198)
 /note="unknown; ORF 53; similar to Kaposi's sarcoma-associated herpesvirus ORF 53"
 /translation="MTGSIVLALALLACLYLCLPVATVTTSSTGTGTPPVTTNPSA APSVTPSFYDYDCSADTYQPVLSSFSSIWAVINSVLAVATFLYLTYMCFKFVETVA HE"

SEQ ID NO 104 CDS complement (72884..73198)
 /note="unknown; ORF 53; similar to Kaposi's sarcoma-associated herpesvirus ORF 53"
 /translation="MTGSIVLALALLACLYLCLPVATVTTSSTGTGTPPVTTNPSA APSVTPSFYDYDCSADTYQPVLSSFSSIWAVINSVLAVATFLYLTYMCFKFVETVA HE"

SEQ ID NO 105 CDS complement (72884..73198)
 /note="unknown; ORF 53; similar to Kaposi's sarcoma-associated herpesvirus ORF 53"
 /translation="MTGSIVLALALLACLYLCLPVATVTTSSTGTGTPPVTTNPSA APSVTPSFYDYDCSADTYQPVLSSFSSIWAVINSVLAVATFLYLTYMCFKFVETVA HE"

SEQ ID NO 106 CDS 73274..74146
 /note="dUTPase; ORF 54; similar to Kaposi's sarcoma-associated herpesvirus ORF 54"
 /translation="MAEVTAHTVPYAFDSCCKFEIIPKNNSRIALRNKFPVVVKPGEPLVVPLGLKIIRAPQCAFPLSGAPTDEVYYHTGLIDQGYRGEIKLIVLNKTKQVVTLYR GEVNVLIAFMYASPGPLKCPILNLPHYSLADGFVTPSPHAMTIPIPTDRTPTLSLYK KSPQLSTPHVPLIVGRSGLATKGLTVDATKWTQSLVHLRFYNFTKEPIDIPANSRICQVVFIHEDHVPSPGWNLRLSRVQLGSLTQISWAKIRFTDVATLPKTHPLNSRHTQSQTEPETARGAKGLGSSGL"

SEQ ID NO 107 CDS complement (74207..74839)
 /note="unknown; ORF 55; similar to Kaposi's sarcoma-associated herpesvirus ORF 55"
 /translation="MAAPGSFWTCCGFSPFGRVGCQYRPLPDPLNECPTHWRTEIAMGLPPGVDMGDVKQAEACTAALRQTYLLAVQSNKITEYLRRFDAARVPAGCQETVRIQISKLKSIQNVIWNAMLSLAIGDITVDESAFHALLNKRADETVSLLEMEKLATTIASDDSVTWAAEINNVLDTEASSNPSPHPVIRQPTPQLAVADNIVPDKIIQDAQADG"

SEQ ID NO 108 CDS complement (74207..74839)
 /note="unknown; ORF 55; similar to Kaposi's sarcoma-associated herpesvirus ORF 55"
 /translation="MAAPGSFWTCCGFSPFGRVGCQYRPLPDPLNECPTHWRTEIAMGLPPGVDMGDVKQAEACTAALRQTYLLAVQSNKITEYLRRFDAARVPAGCQETVRIQISKLKSIQNVIWNAMLSLAIGDITVDESAFHALLNKRADETVSLLEMEKLATTIASDDSVTWAAEINNVLDTEASSNPSPHPVIRQPTPQLAVADNIVPDKIIQDAQADG"

SEQ ID NO 109 CDS complement (74851..77337)
 /note="DNA replication protein; ORF 56; similar to Kaposi's sarcoma-associated herpesvirus ORF 56"
 /translation="MVDEIRAIESTSGDMAEVITDILTEQATASFFCVLHDRGDAPI NTPHAVIKLCLPAKRGPGGPRCLPELMVNLPAWQVNLFLTGDAPLTSNDIKDRIDLQA TEEILEPILSVLACKRSAQQTKHDSFKSKVAWFRAKFVSALRKVYKMTPSPYWMITLL GSFEASFVLAGTFYFFQSHICTAETLVHLTRLFSSSQGQSLTVNTYDELGRVFRSDFLGIVPNFWAYLKYMQODDVESRAIDQTINSIRGGMLSPQDVLVHFIYLSFYECMNA QTFLSYSRTTSSLPTPATVNPPQLCRRLEADFKEHVMAYYNKASYLSTYITILTVPAP LPDGYENFQELACQYWCQGOSRDVAEIMTRINDQYPQLNLTKDLSGLLDIAALDQYSGGPKENLFTVASRIPTYCEFLNKQYFVLMHADCIDAYWKQNIIVPEDAQLQGLTDQDLTSRIFYCDLGLSLPTFKQQILVSRHEYFNPRLPVYRWVLDFDLKVTGRRTLNDIYNICVTLRQVILETLQLIGPLKPNHPVYFFKSACPAVTWPDDISDTAFCHCDAKIGMRIVTPFPSGYCLVGSAPLVSLLTDLNRVVKLDTRLASEYPGILEDKGPFDSGIYAKGRCVRVPHCYKVGPGGELSRLLKIIICHPEESDKSAYLKNAFKVSNLHHAPGDSVTKNGHLVYAITDENEGFLESKTKNNLPKTIDLAEKIERTTEKPLIDWAATAVWPKLHDTIQRFFPD DRIGQFASVSFMHSGDNIIQVKPKGNFFCINHKHRNHTQTVRVFLTLHSTKESEVT VTFMSQCFAAKCNHNSPTAHFSFMVPITGT"

SEQ ID NO 110 CDS complement (74851..77337)
 /note="DNA replication protein; ORF 56; similar to Kaposi's sarcoma-associated herpesvirus ORF 56"
 /translation="MVDEIRAIESTSGDMAEVITDILTEQATASFFCVLHDRGDAPI NTPHAVIKLCLPAKRGPGGPRCLPELMVNLPAWQVNLFLTGDAPLTSNDIKDRIDLQA TEEILEPILSVLACKRSAQQTKHDSFKSKVAWFRAKFVSALRKVYKMTPSPYWMITLL GSFEASFVLAGTFYFFQSHICTAETLVHLTRLFSSSQGQSLTVNTYDELGRVFRSDFLGIVPNFWAYLKYMQODDVESRAIDQTINSIRGGMLSPQDVLVHFIYLSFYECMNA QTFLSYSRTTSSLPTPATVNPPQLCRRLEADFKEHVMAYYNKASYLSTYITILTVPAP LPDGYENFQELACQYWCQGOSRDVAEIMTRINDQYPQLNLTKDLSGLLDIAALDQYSGGPKENLFTVASRIPTYCEFLNKQYFVLMHADCIDAYWKQNIIVPEDAQLQGLTDQDLTSRIFYCDLGLSLPTFKQQILVSRHEYFNPRLPVYRWVLDFDLKVTGRRTLNDIYNICVTLRQVILETLQLIGPLKPNHPVYFFKSACPAVTWPDDISDTAFCHCDAKIGMRIVTPFPSGYCLVGSAPLVSLLTDLNRVVKLDTRLASEYPGILEDKGPFDSGIYAKGRCVRVPHCYKVGPGGELSRLLKIIICHPEESDKSAYLKNAFKVSNLHHAPGDSVTKNGHLVYAITDENEGFLESKTKNNLPKTIDLAEKIERTTEKPLIDWAATAVWPKLHDTIQRFFPD DRIGQFASVSFMHSGDNIIQVKPKGNFFCINHKHRNHTQTVRVFLTLHSTKESEVT VTFMSQCFAAKCNHNSPTAHFSFMVPITGT"

SEQ ID NO 111 CDS complement (74851..77337)
 /note="DNA replication protein; ORF 56; similar to Kaposi's sarcoma-associated herpesvirus ORF 56"
 /translation="MVDEIRAIESTSGDMAEVITDILTEQATASFFCVLHDRGDAPI NTPHAVIKLCLPAKRGPGGPRCLPELMVNLPAWQVNLFLTGDAPLTSNDIKDRIDLQA TEEILEPILSVLACKRSAQQTKHDSFKSKVAWFRAKFVSALRKVYKMTPSPYWMITLL GSFEASFVLAGTFYFFQSHICTAETLVHLTRLFSSSQGQSLTVNTYDELGRVFRSDFLGIVPNFWAYLKYMQODDVESRAIDQTINSIRGGMLSPQDVLVHFIYLSFYECMNA QTFLSYSRTTSSLPTPATVNPPQLCRRLEADFKEHVMAYYNKASYLSTYITILTVPAP LPDGYENFQELACQYWCQGOSRDVAEIMTRINDQYPQLNLTKDLSGLLDIAALDQYSGGPKENLFTVASRIPTYCEFLNKQYFVLMHADCIDAYWKQNIIVPEDAQLQGLTDQDLTSRIFYCDLGLSLPTFKQQILVSRHEYFNPRLPVYRWVLDFDLKVTGRRTLNDIYNICVTLRQVILETLQLIGPLKPNHPVYFFKSACPAVTWPDDISDTAFCHCDAKIGMRIVTPFPSGYCLVGSAPLVSLLTDLNRVVKLDTRLASEYPGILEDKGPFDSGIYAKGRCVRVPHCYKVGPGGELSRLLKIIICHPEESDKSAYLKNAFKVSNLHHAPGDSVTKNGHLVYAITDENEGFLESKTKNNLPKTIDLAEKIERTTEKPLIDWAATAVWPKLHDTIQRFFPD DRIGQFASVSFMHSGDNIIQVKPKGNFFCINHKHRNHTQTVRVFLTLHSTKESEVT VTFMSQCFAAKCNHNSPTAHFSFMVPITGT"

SEQ ID NO 112 CDS 77578..78906
 /note="immediate-early gene product; ORF 57; similar to

LAATPPSFNPYDYQRDGQHYDAYCELRIPLPSGRSRLCQARGRLLGAVRKSKYFEED
 KEFPIDQFPFTALVFRLRSSEEMSCPVCPRVCALRLELRNMRFAMLGRGMLHALSGPS
 VSDQERRYREGHGDGHDAQDDDAAYSSGLLRARLMACAAPSAGDPWGHMHIKIYYYGQ
 LQAEELLTATGQGIRLSSKPTNKAGHHVCVLDGPLQAWFPPIPQTESSVVQRLEDALK
 WLVDGIIFCSTSREGIMFTITGGPNWFQGNTVEPVSLPHRAYTGMHVWAFDTDRYLLD
 MARSPSPRDTGPPAAFVKLWVGCSLGEERNSSRAPLSIIVYQTEIYRHFE"

SEQ ID NO 124	CDS	complement (86355..87527) <i>/note="R11; similar to Kaposi's sarcoma-associated herpesvirus vIRF K9"</i> <i>/translation="MAERMDLKAWFIEAVESKRYPGVEWDDEDKTIIRVPWNRCTDS RVDEDYNKIFDDFCGSARGVCQTGSHAQKFKIRMLYAVRSHRYLRETPPSKAGGVSG ERYRLFQLLPEVTVGCDLCNLIAATTSLHSCSMGSCVREDVFERTRRPRAKAPLRSVSY KRKSKRLQDSSAQPVLGAVEVSFFYFGENGVGVQILRAGSGVRICGLPDPKRGHLCCA DNPLTCFLPSSQLIPCEFARADLQALQKTCERGLICVMTESGIVCKNLEERNMTALTN YSENYYELRPSQPLQAFDLIHYLRELARSPTPGDVPFRDCAWIFMCPSTQSENTWDAP IALKLRYVCNDDVSDDVSNGAAGDDSGDEGPSGAGVGASGTTGSTSVSTLAPYGRK"</i>
SEQ ID NO 125		
SEQ ID NO 126	CDS	complement (87894..88961) <i>/note="R12; vIRF"</i> <i>/translation="MAEGRAGSIRVNRPGLRAWLLCDCDNDKHPGMHWLDEEKTIVLPWNHLKGAGGVSDDERNMYLDYCQFKGIRQTGNRRLSVRECKNWLASAIRHSQTVED VSTEENLSAPAPNRCRVRILLLPIFVRSCPLCNEADATGGMLLDVNEVTARFRYLGAG MEYEGAVGGDGEQCWMLRLVYYYYGRLVGNMEVGSPNGVRLLPAPKRLQGHVCAGIR PEQALLPHTPQDMFPHQTSMLKWLGKEIIRGLMIYADGSGIYIRYMGHVP AFLLGNGG SLEPVDIINNARVLRVFSLAQYLSAVSATPPHTRFPAAAYASLHLGGVPTPEGEPCPT IPLSIQIWHCLWRACGDAQ"</i>
SEQ ID NO 127		
SEQ ID NO 128	CDS	complement (89122..90216) <i>/note="R13; vIRF"</i> <i>/translation="MTEIEITHNHLRRIISNLEANTFPEHLCWCDEEKRSFRISWHR GMSGMQPVVAYCLDRDLECGRQHNVSECRKLLRVLRENAGFEQDDARATTTFRGGER FFYLRPAVDPLCYACILDSHSETVNLNLEAACVHGLEPGTPLPPPAPAEADGAARSVY ARAARLATVAPPHQDQITPFWRLRIRVFYFGLVVAEHTSQDRRGVRLHKRQDPKPGHE CFYGTAYKMWLPKPKQLDGPLTPEQRETVEIINGCEEGVFLHGNELGMYVDNRTRHTV RCAGNDAEQGNAQRAVRSVKSQIFYVMGLLRRRLARSPVPGDTVPSNAVTLYLGGRPG SSKRPQVPVTLVICQDELTHGDIARAARWIL"</i>
SEQ ID NO 129		
SEQ ID NO 130	CDS	complement (90462..91544) <i>/note="unknown; ORF 58; similar to Kaposi's sarcoma-associated herpesvirus ORF 58"</i> <i>/translation="MGTYTSEASLAWLSFMSGTVSASPPFILCFIYHSLYFVEPLISVE NIIIFSWGAVGLHGLLLFCIFGLPAWLSRQDVPCITIASFLITAGSMASTLGVDLPWV HVSIFVGSCLCLLLKVVAANDVVYLCPTIAHRYELGFLAAFSVYYFLVLKNLFLAPV FLLPLVAFIVGGVCSRLRSHPLYEAGLQRRHAIIFSLTSRRYITYSIKQALEVCGWDF YLVTVLIGGAAAGTLSVGLTTPLLLGLVHYFFVHFVGLFCCLGLVFRSNVLALVYVLA AAVLLTLTHVLGPGTHNLFTRCVFTVFLTMFGAIGCELOIIRKKLQRAANSPRIV LGVCACGNLLMAVFFSLNKVELGAL"</i>
SEQ ID NO 131		
SEQ ID NO 132	CDS	complement (91555..92739) <i>/note="DNA replication protein; ORF 59; similar to Kaposi's sarcoma-associated herpesvirus ORF 59"</i> <i>/translation="MPVSFHYGARVDVDAALGSISRVYDHIKGIVKKGVIQISGQGRAP VLSVLSSVGDAGVLGLRLKNALAPLMVYSDMTDEVSFSFRNTSILGNTFTHTREMFGVN IAEMNVAFYHHGDESDAEGKPQFVRTTIAYGDNHTSTVHKSVVDEPNLPSFHDRLEQA GTGNRLFLTVKTLTLLKWLQQKTRAKQVTVSLSETLAVATFTVDGVSKIIDFKPD TPDAKWTCAAGRKLDGVVVSSDLTTHVSLESVAAACKIPGFFLPGFRWHANEILE</i>
SEQ ID NO 133		

VEGLPLTDSLADVRLGVMLLKVDPTDRNNAVPGNLSEGADPEGVPELPSPPRTPDLDL
KEQCVPIAEDGAEPTDGGAKSLRTSGRPEKKHGKRKHSSPSRGKGKTKPRATFNP
LF"

SEQ ID NO 134 CDS complement (92868..93812)
 /note="small ribonucleotide reductase; ORF 60; similar to Kaposi's sarcoma-associated herpesvirus ORF 60"
 /translation="MFGLSIVTAAMESPDRFLYASDHGFLALTQETWQNRWFPSQIS
 LHEDSDEVRLSPTDREFYQQLFTFLGMAESLVNFNIEDLVKEFSNHDVTHYYAEQVA
 MENIHGVYANILNLFFGGNRGDLMIYAKKIVEDATLAKKIDWLHSRVKATTRAEKV
 LLFLVIEGIYFISSFYSIGLFLRGIMRGVCLANDYISRDELLHTRAASLLYNTMISR
 DESPSVAYIHGLFREAVEIETLFIRSKSRDVTMVNVGDIEQFLQATADRILKSINIPP
 LFGARPPNACPLSYTSAKSVNFFERDNSEYVTSHNDL"

SEQ ID NO 135 CDS complement (93794..96160)
 /note="large ribonucleotide reductase; ORF 61; similar to Kaposi's sarcoma-associated herpesvirus ORF 61"
 /translation="MNTETSFSAAKSAKPLTLVTDAGTGGCSSSLDPERCAESLVNSL
 KATLGWDIEANSLTGLLWHRIMEDRCLVTVDYLAvgfgerlsdevrafmskhealdg
 LLQDFKQSKAYTNFVNCYLSAVRFYDLYVRLTQGSSPIFESVAQMFMRVAVFVACQC
 IKFPCLRETLRHLVESETELDEMYLVGYAFHYISSQIVCCATPVLRSAGLRRGQQLSSC
 FILKPSMATEDKTLKALHEEMSPLLASKSGVGIDVSSFAEHKNITSCLKLINAHVGYF
 NDNNIRPVGASAYMELWHHQICDFLNAKMPENQERCHNLFGQGVCPPELFFRLYETNPD
 GQWHLFAPEVAPNLLKLYGAEFEIENRLVAAGKHSSLPLKSMYALINTVIKTGSP
 YVLLKEALNKHHCETQGSAINCSNLCAEIVQQPEGQASVCNLANISLPKCLRPHRGE
 SGVEPGKGDVTGFELDDAVEAAVIVNACILGGTAPTESVRRGQEERSMGIGVQGL
 ADVFAELGFGYLDAESAKLDVEIFQAMYFTAVQTSHEIVLLGEGTFRGWERSRLAOG
 VFHWQTWDGVKPSHPLERWEQLGRSIAQHGFNSQFLALMPTAGTSQTLGYTEAFYP
 FFANIAKVTSEEILKPNVTFFKRVKPGDLRTVRRYGGDASFPEPLKDRYKIFLTA
 FDYCPIKQLERAGARAPFVDQSOSLNFFLKEEQATRASYIRDLLTGYRLGLKTMLYY
 CRIQKQTKLNALQCLDQVVGDNISSEGAESNCVQKADGERTKVCLACQ"

SEQ ID NO 136 CDS complement (93794..96160)
 /note="large ribonucleotide reductase; ORF 61; similar to Kaposi's sarcoma-associated herpesvirus ORF 61"
 /translation="MNTETSFSAAKSAKPLTLVTDAGTGGCSSSLDPERCAESLVNSL
 KATLGWDIEANSLTGLLWHRIMEDRCLVTVDYLAvgfgerlsdevrafmskhealdg
 LLQDFKQSKAYTNFVNCYLSAVRFYDLYVRLTQGSSPIFESVAQMFMRVAVFVACQC
 IKFPCLRETLRHLVESETELDEMYLVGYAFHYISSQIVCCATPVLRSAGLRRGQQLSSC
 FILKPSMATEDKTLKALHEEMSPLLASKSGVGIDVSSFAEHKNITSCLKLINAHVGYF
 NDNNIRPVGASAYMELWHHQICDFLNAKMPENQERCHNLFGQGVCPPELFFRLYETNPD
 GQWHLFAPEVAPNLLKLYGAEFEIENRLVAAGKHSSLPLKSMYALINTVIKTGSP
 YVLLKEALNKHHCETQGSAINCSNLCAEIVQQPEGQASVCNLANISLPKCLRPHRGE
 SGVEPGKGDVTGFELDDAVEAAVIVNACILGGTAPTESVRRGQEERSMGIGVQGL
 ADVFAELGFGYLDAESAKLDVEIFQAMYFTAVQTSHEIVLLGEGTFRGWERSRLAOG
 VFHWQTWDGVKPSHPLERWEQLGRSIAQHGFNSQFLALMPTAGTSQTLGYTEAFYP
 FFANIAKVTSEEILKPNVTFFKRVKPGDLRTVRRYGGDASFPEPLKDRYKIFLTA
 FDYCPIKQLERAGARAPFVDQSOSLNFFLKEEQATRASYIRDLLTGYRLGLKTMLYY
 CRIQKQTKLNALQCLDQVVGDNISSEGAESNCVQKADGERTKVCLACQ"

SEQ ID NO 137 CDS complement (96163..97158)
 /note="assembly/DNA maturation protein; ORF 62; similar to Kaposi's sarcoma-associated herpesvirus ORF 62"
 /translation="MKTRDANVNKLNDLMSMRLLPPPPHRVSLSRGRDFSKGVRDLLSK
 YVVSTTGVEAIKDGFLSVSPTCQTYGDFLIYSQTMSSQEPRGTYLFSFKQTDTGSSI
 DMLFTPTSLARLSRMDADSAPQTNRRIACVWYGHESGLDAIPNFEELLETGSLHQFLA
 PVGPLVQTVHSTFVTKVTALKGNVVAEPVVTHIGLTLPSDMFVDLDDSCPSSLRDE
 PLPAHSSIVVCLTYIRVNNRPALGLGFFKSGKGYCEIAAQLRDFYSGVIRTKYIQLQN
 DLYINRLAFGVVCRGLGSVPGLQPSFQSLHFKGAALPVLKTEFVSNPGSWKLFL"

SEQ ID NO 138 CDS complement (96163..97158)
 /note="assembly/DNA maturation protein; ORF 62; similar to Kaposi's sarcoma-associated herpesvirus ORF 62"
 /translation="MKTRDANVNKLNDLMSMRLLPPPPHRVSLSRGRDFSKGVRDLLSK
 YVVSTTGVEAIKDGFLSVSPTCQTYGDFLIYSQTMSSQEPRGTYLFSFKQTDTGSSI
 DMLFTPTSLARLSRMDADSAPQTNRRIACVWYGHESGLDAIPNFEELLETGSLHQFLA
 PVGPLVQTVHSTFVTKVTALKGNVVAEPVVTHIGLTLPSDMFVDLDDSCPSSLRDE
 PLPAHSSIVVCLTYIRVNNRPALGLGFFKSGKGYCEIAAQLRDFYSGVIRTKYIQLQN
 DLYINRLAFGVVCRGLGSVPGLQPSFQSLHFKGAALPVLKTEFVSNPGSWKLFL"

SEQ ID NO 139 CDS complement (96163..97158)
 /note="assembly/DNA maturation protein; ORF 62; similar to Kaposi's sarcoma-associated herpesvirus ORF 62"
 /translation="MKTRDANVNKLNDLMSMRLLPPPPHRVSLSRGRDFSKGVRDLLSK
 YVVSTTGVEAIKDGFLSVSPTCQTYGDFLIYSQTMSSQEPRGTYLFSFKQTDTGSSI
 DMLFTPTSLARLSRMDADSAPQTNRRIACVWYGHESGLDAIPNFEELLETGSLHQFLA
 PVGPLVQTVHSTFVTKVTALKGNVVAEPVVTHIGLTLPSDMFVDLDDSCPSSLRDE
 PLPAHSSIVVCLTYIRVNNRPALGLGFFKSGKGYCEIAAQLRDFYSGVIRTKYIQLQN
 DLYINRLAFGVVCRGLGSVPGLQPSFQSLHFKGAALPVLKTEFVSNPGSWKLFL"

SEQ ID NO 140 CDS 97157..99976
 /note="tegument protein; ORF 63; similar to Kaposi's sarcoma-associated herpesvirus ORF 63"
 /translation="MASSIPAARADNGDENTGGLYKLTNDLCTGSLQQLKLLMEFQ
 LKPLPTAHLLSMPVTFLNTAFKIDNPLVFSIQLKHPVFLMRVARLPEPVITDHQSA
 ETSTGILSEVVNVNLNTAIRKPHESPAAKDNDYLDNRAILAMITEYIHHVTSRTPSGIP
 PTPPMGISHLPCVEQILHETHRQYWNLTLPESLFIDIGEVAŠPLQTWLILSYCKLQL
 APPPLFPPVDELARRLVTGHHELPVPLSTSLETYITMPVSKQRAFEIYSVFAKSKNIV
 DGTPILAFTDTELTTFPELLFLYDFVIESLCKNQAYGCSRNAIEHFIIKKGIDFMAEL
 GAFIEKTCYRSTVSLNSNVRAVKARLASCGSKEACEDFRAMILMTPHETTPKWENFT
 DFLEMVNQLTLYGFYFYECLNQYSPTSISLAKIQNILNRVDAEQSDRALWRTPLIGSF
 PFPWKLNNVLAFFKPSTPVATLQKIQYKAIPSYLMSRLFEIAANKSWGNIALAESAPLT
 DIQTAEPDQGPVSAQVIKYCSRLQISATDYDAIAVSSPGFAAEFIKTKLYPILSEVL
 RNTSKKNRSLFQIRWLIVFAAEDARDLAPIRRLSALAYFQIMDILEEKHSPESFYNLL
 DYLOETFRICIRQVIEPATCPQEFQYLFTFQNIPIAASFQTSMTFVDDLKNGIPGIL

SEQ ID NO 141 CDS 97157..99976
 /note="tegument protein; ORF 63; similar to Kaposi's sarcoma-associated herpesvirus ORF 63"
 /translation="MASSIPAARADNGDENTGGLYKLTNDLCTGSLQQLKLLMEFQ
 LKPLPTAHLLSMPVTFLNTAFKIDNPLVFSIQLKHPVFLMRVARLPEPVITDHQSA
 ETSTGILSEVVNVNLNTAIRKPHESPAAKDNDYLDNRAILAMITEYIHHVTSRTPSGIP
 PTPPMGISHLPCVEQILHETHRQYWNLTLPESLFIDIGEVAŠPLQTWLILSYCKLQL
 APPPLFPPVDELARRLVTGHHELPVPLSTSLETYITMPVSKQRAFEIYSVFAKSKNIV
 DGTPILAFTDTELTTFPELLFLYDFVIESLCKNQAYGCSRNAIEHFIIKKGIDFMAEL
 GAFIEKTCYRSTVSLNSNVRAVKARLASCGSKEACEDFRAMILMTPHETTPKWENFT
 DFLEMVNQLTLYGFYFYECLNQYSPTSISLAKIQNILNRVDAEQSDRALWRTPLIGSF
 PFPWKLNNVLAFFKPSTPVATLQKIQYKAIPSYLMSRLFEIAANKSWGNIALAESAPLT
 DIQTAEPDQGPVSAQVIKYCSRLQISATDYDAIAVSSPGFAAEFIKTKLYPILSEVL
 RNTSKKNRSLFQIRWLIVFAAEDARDLAPIRRLSALAYFQIMDILEEKHSPESFYNLL
 DYLOETFRICIRQVIEPATCPQEFQYLFTFQNIPIAASFQTSMTFVDDLKNGIPGIL

DLVSLGAAFYNMKLLYDSTLDTVEIPTEEGQPIVVSFVKSTIRVLEKLLQEAVIAL
 TQTSEPMYAAHIRLMQHLTYMQKIAHGHEIMTQLPSVFHEIHEGYLQCFKRFKRLMLH
 VTGSCCYSLTRYFGFLYQPPLIPDTIVQKILNFDKTDTDDILKSLSQPVRQGPLSA
 ENESSSRLSKNNVELLQKLYDDFRTASTNNNPTSIKLEYSGNYNETQVSVDWSTYNLV
 TYTAPDDTLKFTPVNTEALDRMFAE"

SEQ ID NO 142	CDS	99980..107626
	<p>/note="tegument protein; ORF 64; similar to Kaposi's sarcoma-associated herpesvirus ORF 64"</p> <p>/translation="MELPPIFSKFKIEGVATTHQACDRFGQYAGSQCLSNCVIYLAQS YFNRESPVTDTNDLDDVLRQGATLDFILRRSGTLYGNYAQQLHHIPSFIKTNEWTAII FQSQEYFGLIGLDAAIREPFIKLSILTRNYAGTVQYFLFICGDKAGAVIIKNKTFY LFDPHCVPHVPNSPAHVISSSDPTAILEYVSPPDREYTSFLYIMPSEYVNPEHYITN HYRTITFAVKVHGPIDISTGIEPTCTIEDIPSPPRSPDVTSKSSNLRVPRTTDTSSA KPPPATLSGLRGAEPPTSYDPATNDADTKLLTPAPAQTAVDHPFQTTPGATLLLSE LSASRGRKRKLSSILQRYSDSDEASSDDEGAPRRRVHDDAISAEVIWMDDDISPLYSPS ATPSFDDVFDSPPMSPFETYEDATEDTDGAFLEQIARDAAETPFSAFDDLITDHDSSL DKKIEQLIKYEAPSQHLPNISDKQNGRAVREAAALQMDKIMINIILEHGLITDAQAR GPSACKNVLQFFFILWGEKLNIPISDAKQVLELDQLIPLHTAISEGKFKQGAFKKHLT TKINRCLASMRATHADAQKKLASAFNVEGSQISSSEAKISVRALKEQIANHLSPGFLA VYSADEVKHLRDKIQLDLKTGIEQRNKEIQQEELFFDAMLTALDTFQPPPQKTAQPMEIF PHRKTEVMLDHLASITTRLTEDATEALNNYLETPPDQGTHITNIPNFSSI VANIISTL KILTYAENDMQLNVTPMATYRRQQLYLGGELETIFNLEWPyETVPPVQELPLVARAKA KMESVTKMEKNQQLDQILGDAETLLDTITATSGDENPVRAMSIPILETYITNAGALI GSSRNQRFEKLKAAIHDLASSESFIIMLLNNTRLDNISDNLAKIDGILTNNTRFLSNA TVSKTLQTLGGSLIRECVEALNKRSPSSLNNARLLAVQTLGHASVPDHETLTRIVSG VASAQKESAGDDPDRWTRVTGHNELKLVTTQSRVDKATRRKLLMIITRDLKEAEVSO ETVLETRWQENVLKFQPSKIEIDFLQAPSAGKFAEKHLRTLITQFNGHERPPS EATAVPMDDYPTPIPTPQAVSTATAEKGKAAWNKIQQAFQDFNFHLIDASDWQEMASE YSRHGSSLPGTVPGPVLRFMESISNTLDDIILTQKLASLLPNGPAFRPPAFDWIAPYQT RVNAFLKTIQLPMVRNLADKIHQCQTVSHAVQSDLQQATVGTSLERPAEYCRILS DMQVAFNDHGIAVRSEAAAYTDAINS PANVVTTPPKPNLEAPKKLITADALTVEDFPD FLKTSILQQEQRLLIAQLQRAEFQQLEASISAERLRQSTRDEIAGKMATAITQLLPRAP VAISSRPLNLSKPIDFLSSTVYDKILDKEPYETAIAGFAWLEIATKSVMVYSQNETQ QLNVLSEVEKQSTVAQRLHDLELSAKNTDDVKVLQKALDELAPLRVKGGTTVDWK QKLESIESLRLATRTAGEISSELERIGTQAVGTITVRLGTLSDQCRAAFLRQASL PEGFSDIGTKLSELQAYIKYKKQFLEHFETTQPNVFQRFPLSQNITENVPARPAMDSV ARLTNHLHVRGSAPHFTTWIETLPTDPEKPTHVPAGGAPLHRQITYSNVLEALFSL CSTTLTPVPTAPGLEIACTRARRGAEATWMDRQWPDIATQTLQDVLDTYEHTTAHNRD AAFNTFLAMCVFTQIIRGASRAVTLPLKLPSTAVDFPPEEIVLTPRECTTLVTAMWPTLA AAILRLKSYSEALGLMSRFLPLMFQALPHLTLEAQVKNGPHNTPPQLRCFAKTEAIIPY FPAQWQSANLEQSLWQGQDFLQICDNNQRKARVAAVTWALTTIDGVVLDQLWSTFKPM TAASDDTYVDLVETLHLTTFGPRGPTPRRETTTEHPPYEGQPTGYCISGQSTTPVQA SNTPVSAFEAVLGAMVFHVPIRIFLAATPKRLQGQARGGMGLLPILECPDVEPFKSL YNAPRKPVPIETLPASLHPHDERQVFLRQAQWLSYRFTPHEAARSSTPPLVVIDPEN LVTATYSSGGPANFESRPFYVMPGPYPPDWPKTLSVTSNTSVTHLSHDEICNLFTTLS REHGTVQGRDIFAAAPTNVTPEQTAANPPAWETDNRLITQTTETAKPHIIPASPKARTD PPVETTTHHSQGQASQHANSNVNQPGQITSHASRNTPSTAPQASSSPEKFNTQTVPL ISQTSETAHINQPASQVTEPKGIFGTYKPRVLTEPAK PANAGVASRQPEATTTPKL PINPPTARVFIGTAKLSPAEEESHGATPDAHQSKIDREKYAESRPRRTPHLEEGPRE PHVNTPTSAHINVPSQGQKTVHGRENPGLQATPSAPQPTASNPRIQYTLPTDGRL LHDESEVESTPTEEVKRSPKTQDVSHGPEPDDSRWTAPLGPTIEIHRLEHPQILKNIT SLTVPTPRVTPIPPTNIWIPLSHVNQHEEITRAKNVLMRFIQNVRRLQASSDALSE AIARIKFYL"</p>	

SEQ ID NO 145	<pre> /note="capsid protein; ORF 65; similar to Kaposi's sarcoma-associated herpesvirus ORF 65" /translation="MSSLRVKEPIVQQRLEHDYPNHLVAEMNNLPQGDMSPAQYAI KRNLYLVFLTAKHHDYMMQKKNGILRKDHRLRGKKDASSSISGVLSGSGSAAPSVA PVASTLGSNSFTTISSGPHSLIGSMGPAPGGGPGSVASSGIGSTSLSPSDATTLDTR RSSQNKKSK" </pre>	
SEQ ID NO 146	<p>CDS complement (108152..109498)</p> <pre> /note="unknown; ORF 66; similar to Kaposi's sarcoma-associated herpesvirus ORF 66" /translation="MASGRLPNLAEDEAACGHGRGSPYPAHRWLDGSRLGLDLAASIRSI GLCPECYVCVTFYGLGAWDGRPPKWACTLISAPSQTALNEIATGWRPDNPPKNGDVR SRLHDIGRSLLAEAYAWVLRCTGVCPSDEGLSLTAVPRSAWSRYLVSVFQRACCLV CKTLNCRQRFPFLVTPHQHALDLPVLRKKWNGGGCVSMQLNVPISRRLGANLNEVPL GPSDAGLLASLRELAPTVPCGNPFNALLRSLTFRALLSMSRVVLPIGESTETEISRDL GQKVLAYNVLFPCISLPVWSQVVARSVLEKTVPAPRVVVCLECGYCLNFGRGKFETVN FPPTNVFFSRDQEKQLSICATTGRVYCSYCGGSHMRVISLFEITCVGDPYLRCVLAN NAAHAIRDANSLVSVVVPCLASPDATGLLKHLRVAELFYLTSSISSLSCGKCNRS" </pre>	
SEQ ID NO 147	<pre> /note="tegument protein; ORF 67; similar to Kaposi's sarcoma-associated herpesvirus ORF 67" /translation="MSSGKRLVDELCDLVSVSYLGPSPGISLDLERCQDGAPVYAKGGAV PVCTVRLQHGCVYHLEFVYKFWLHKLERLAYPFAPCFVIINNGLATTLCFLCKPRDA DAQFGKNLPINSDVYLERNSSVSLGQDDFMFKARL VFSGDLNVYSSMVICRTYFTEH RQLQFLVVTPKSAKRLKTLRTVFALTGHSDGLGALRRTGSVARPSGSELKDIGRGE RAAMTN" </pre>	
SEQ ID NO 148	<p>CDS complement (109524..110198)</p> <pre> /note="glycoprotein; ORF 68; similar to Kaposi's sarcoma-associated herpesvirus ORF 68" /translation="MFVPWQLETLMRHWPSLRGLVEQSFLPGTPDGAFNSPVLINTQD SIQPASSCRVCSLLFTLVRTFPFFPDSSFFEDYGWLCLTCYAPRSWTATLMAADLLE THVYFPQCVKDGPVYTAQSLIGIDVQLHFFATRCFRPIDREQILHTSHLNFLQTEFIR GMLEGTIPGSFCFKTSWPRTEKDDQQPTVACCSVGRGSHTNRDNRLPEDLEEAFNSTN AEEKPSLLGVFSATWAESQLLGSDTQQADTHLQPSAFPTPEDADQSQGPCLMHTLNL KTKNHTASICVLCCECLAAHPDAGPVLKDLRRDILENMENNVKLVNRISYIILNDPDSL HVRDEHLRGLIKRCSAQEIHKFFCDPVCVLNTYSHCPAVLFKCPPPEKYKKLARLA TGEFLDCNRIFDCETLQTLAVLFKGSQLAKIGKTTSLIEIRELGFLRRLHNIQITHPF QTSNLYI" </pre>	
SEQ ID NO 149	<p>CDS 110609..111982</p> <pre> /note="unknown; ORF 69; similar to Kaposi's sarcoma-associated herpesvirus ORF 69" /translation="MPKQPRSRLASRAPYAPSVRDPGQOSTRPPASRHGSCKSEIMQW KKLVSDTQFFSALTRRHELGVDFLREMGTPICTSKSVMPLNLKTIAPGRCVSLSSFG HSSNMGFNCSSCTPTDRSAVSLDANALGEDSARKNSELCVALTFYHAEKVQHQKG YLSLLSHSMEVVRKSFTQPGLLYAHVLKTFGHDPLPIFTVDADERLALWAVFHTRD HLGETSLRLIMDNLPNVDITVDCIKQTYIMKFTPSRPDNATVTPVNSICEAVATLDC TDEFREEIQRGTIAINSQGLL" </pre>	
SEQ ID NO 150	<p>CDS 112004..112897</p> <pre> /note="tegument protein; ORF 70; similar to Kaposi's sarcoma-associated herpesvirus ORF 70" /translation="MSSGKRLVDELCDLVSVSYLGPSPGISLDLERCQDGAPVYAKGGAV PVCTVRLQHGCVYHLEFVYKFWLHKLERLAYPFAPCFVIINNGLATTLCFLCKPRDA DAQFGKNLPINSDVYLERNSSVSLGQDDFMFKARL VFSGDLNVYSSMVICRTYFTEH RQLQFLVVTPKSAKRLKTLRTVFALTGHSDGLGALRRTGSVARPSGSELKDIGRGE RAAMTN" </pre>	
SEQ ID NO 151	<p>CDS 112004..112897</p> <pre> /note="glycoprotein; ORF 71; similar to Kaposi's sarcoma-associated herpesvirus ORF 71" /translation="MPKQPRSRLASRAPYAPSVRDPGQOSTRPPASRHGSCKSEIMQW KKLVSDTQFFSALTRRHELGVDFLREMGTPICTSKSVMPLNLKTIAPGRCVSLSSFG HSSNMGFNCSSCTPTDRSAVSLDANALGEDSARKNSELCVALTFYHAEKVQHQKG YLSLLSHSMEVVRKSFTQPGLLYAHVLKTFGHDPLPIFTVDADERLALWAVFHTRD HLGETSLRLIMDNLPNVDITVDCIKQTYIMKFTPSRPDNATVTPVNSICEAVATLDC TDEFREEIQRGTIAINSQGLL" </pre>	
SEQ ID NO 152	<p>CDS complement (119211..119735)</p> <pre> /note="FLIP; ORF 71; similar to Kaposi's sarcoma-associated herpesvirus ORF 71" /translation="MFPHKRLVDFGRHLEADDREAVLWLFDRPASDDTPEGFANGLCP STGEPGIPPLPVLLAEAVFLVGRLDLVSTFFLTDVGFIIERLRRSSPSYFSPYKHLMSID POLSERDVKNLVLVFLTGDLGRRRNQSPTFFRWLSQLMEKAALVSPSPNSYMVLSDLLQAVS </pre>	
SEQ ID NO 153	<p>CDS complement (119211..119735)</p> <pre> /note="FLIP; ORF 71; similar to Kaposi's sarcoma-associated herpesvirus ORF 71" /translation="MFPHKRLVDFGRHLEADDREAVLWLFDRPASDDTPEGFANGLCP STGEPGIPPLPVLLAEAVFLVGRLDLVSTFFLTDVGFIIERLRRSSPSYFSPYKHLMSID POLSERDVKNLVLVFLTGDLGRRRNQSPTFFRWLSQLMEKAALVSPSPNSYMVLSDLLQAVS </pre>	
SEQ ID NO 154	<p>CDS complement (119211..119735)</p> <pre> /note="FLIP; ORF 71; similar to Kaposi's sarcoma-associated herpesvirus ORF 71" /translation="MFPHKRLVDFGRHLEADDREAVLWLFDRPASDDTPEGFANGLCP STGEPGIPPLPVLLAEAVFLVGRLDLVSTFFLTDVGFIIERLRRSSPSYFSPYKHLMSID POLSERDVKNLVLVFLTGDLGRRRNQSPTFFRWLSQLMEKAALVSPSPNSYMVLSDLLQAVS </pre>	
SEQ ID NO 155	<p>CDS complement (119211..119735)</p> <pre> /note="FLIP; ORF 71; similar to Kaposi's sarcoma-associated herpesvirus ORF 71" /translation="MFPHKRLVDFGRHLEADDREAVLWLFDRPASDDTPEGFANGLCP STGEPGIPPLPVLLAEAVFLVGRLDLVSTFFLTDVGFIIERLRRSSPSYFSPYKHLMSID POLSERDVKNLVLVFLTGDLGRRRNQSPTFFRWLSQLMEKAALVSPSPNSYMVLSDLLQAVS </pre>	

RRDVAKVVAANAPG"

SEQ ID NO 156 CDS complement (119794..120558)
 /note="cyclin D homolog; ORF 72; similar to Kaposi's sarcoma-associated herpesvirus ORF 72"
 /translation="MASVGPVPTGTIDPVLYQDRALSNLAAHEASFVTSTACYGTIQT
 EVTVGMRVILGTWMRSVARAHQADASVPLAVSILDRLYLECRSPRRRFQRLGAACLF
 LAGKIRDLPKAAFLCFCAAEDFSVADLLKQEKSILKALRWKLEAVLPTDAIGPTLF
 KSGFTKEQLFALHSQVVESVHKAIIVNPATGGLPPSLVAAACALFSLGAAAPPPARLAE
 AVGVSAATLAAAESVATTREFDEDHILSNARGSS"

SEQ ID NO 158 CDS complement (120866..122212)
 /note="latent nuclear antigen; ORF 73; similar to Kaposi's sarcoma-associated herpesvirus ORF 73"
 /translation="MWGSRQHRSGIVSGHGLRSSCRGHGRRGGTREQAGRRGRGRGT
 AAPAAAPAPAPTTSGPQVRAVAEQGHGSDTETATESRHGSSQGSPSGSGSESIVL
 SPTPSPGSAPVLASGLSPQNTSGSSPASPASHSPPPSPPSHPGPHSPAPPSSHN
 NQPSSFLQPSHDSPEPPEPPTSLPPPDSPGPPQSPPTSSPPQSPDGPQSP
 TPQQAPSPNTQQAVSHTDHPTGPSRPGPPFGHTSHSYTVGGWGPTRAGGVPLR
 CTSHNSHEDEAPEQQEGERQQPARPPRPPRPPRPRYPIPIPIPYSSEEVPRKYRP
 QRRFYRQVLGPRIDPPRPGPWCHGVIFCNSDPYSLYRLARCLQFPGIRASSVRVLPDA
 PGSPVIPAFCCITVFCQSRGTAKAVKKARRRWERHPSAPHFQASIVRMDRGLPIQH"

SEQ ID NO 160 CDS 122866..123627
 /note="R15; similar to Kaposi's sarcoma-associated herpesvirus K14 and ox-2"
 /translation="MSGGITLTLLLATVRCALQTHYAAVPVHSTASLGCVLTTPH
 DVLIVTWQKQESPSPVNVATYSSEAGTVVQPPFAGRVDIPEHKLRTTLKFFNATLED
 EGCYLCIFNAFGVGKLSGTACLTYYVPLSMSVTYFPPINPTQLVCRAEASP
 GVPPELCSEPEVFPRPNTTLLVGRCNVTSVDPEDLENATCLVTHIGGLAA
 RPLDPV FSDPLEGTSHYVVGVVAAAALGIFLTGVFLYRSM"

SEQ ID NO 162 CDS 123924..124952
 /note="G protein coupled receptor; ORF 74; similar to Kaposi's sarcoma-associated herpesvirus ORF 74"
 /translation="MDALNNNLNLMDFLSNYSNSYSSYDDNMSYTLDE
 STLCRLTV VFPPTVYAIICFFIFCITLFGNALVLYIFFKFKALANS
 VDVLMAGLCCNSLFLCASFL FSWLLYVAPQMLTSATCKVEIFF
 FYLYTYFGVYIVVCISLIRCLL
 VFSRRPWVKHGA SGFLCVCVSL
 LIVALALSANASLYRTALR
 HPTSEWICYEDAGEDTV
 NWKLIRRTTS
 AI CGFLVPGMLFYGL
 TWC
 MKSTKLARKGA
 VRGVIVTV
 VVFL
 LIFCLPYHLC
 NFFDT
 LLRTGFLAET
 CYLRDV
 ISVAMH
 IC
 SLLQSMY
 SAFV
 VVY
 SGL
 GSF
 RDT
 WSV
 FRC
 CFSTSGSL"

SEQ ID NO 164 CDS complement (125057..128953)
 /note="tegument protein; FGARAT; ORF 75; similar to Kaposi's sarcoma-associated herpesvirus ORF 75"
 /translation="MAQRTNPRAAAALSPEEEAFIHDNSDAESV
 LALVPEQCFSEFL LWLVTRPSDNFDNDDDPALGV
 IWHLLAPLV
 YAPLETR
 RSAHLQGH
 HTISLPYGP
 DLM RQPT
 TRS
 SEIV
 VQCL
 RDSL
 RTR
 LLEV
 GRH
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 FVAD
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HIVNHTSVFTDRMARVPIYRPQPITRQDATERLVSPETWVTQGRGRNRWVGQCVAYGE
 QAYKMGINAAGARYAICEAVTNIMLAHVRRLSDITLTASVGWNPEDDQAWLLQHTLF.
 ACKELCRDLSINFAITSAGSTPCLEELISATQQHQTVAPVPFNAVITATAEVKSSR
 QRVTPDLKATGNLIVLVSFPVPHLTQGSTFEHLCLLPSPTLPDVQATHLANLFMLTEA
 LLSRGLVVSGHDVSDGGMVVTAIEMALAGNRLQIRIPSEETPLQWLVSETPGVIFEI
 QPQHVDEVRQACQNFDCRATVCGTVGQEGLSERIVISHNNEVYSQTLTSVAANWTSF
 SDEQWYSWGPSFTPQPAQELYRKDYGCNQHNLGHLLAEVCRNSELTFLATPSRPPAVAALV
 TPGAPLPRALMAAFTNVGFDVAAVSTDRLGGNILRGFSGLTIGGTVGIEDSYVGARC
 AIMGLLNDPGCYGGLMAFFRRADTFSLCCGEFGFQLLGALGLLRETPHDTPGPKTPDQ
 WDIHLEENASGNHECLWLNHIPQTTISIMFRVLRLVLPGWANGRYLGVRYPRDAME
 YHLNQQQRRIALNYHTGNADPRMFAQHYPRNPSANSAVAITS PDGRHLASLVDPAVTF
 HPWQWAYVPPPELADMTVSPWALAFQSLFLWCIRNRQ"

SEQ ID NO 166

PCR primer

CCTATGGGCTCCATGAGC

SEQ ID NO 167

PCR primer

ATCGTCAATCAGGCTGCG

SEQ ID NO 168

PCR primer

ATATTAAACACTCGCCGC

SEQ ID NO 169

PCR primer

ATGAGGGGCCCTTCGTGTGC

SEQ ID NO 170

PCR primer

CTGAATCCCGCTGCCAAGGCC

SEQ ID NO 171

PCR primer

ATGTTCCCTGTCTGGTTCGTC

SEQ ID NO 172

PCR primer

TTACATCATAGCTATTGCGCG

SEQ ID NO 173

<213> Macaca mulatta rhadinovirus 17577

nucleotides complement (23398..23668)

SEQ ID NO 174

<213> Macaca mulatta rhadinovirus 17577

nucleotides 25065..25368

SEQ ID NO 175

<213> Macaca mulatta rhadinovirus 17577

nucleotides 25518..26525

SEQ ID NO 176
<213> Macaca mulatta rhadinovirus 17577

nucleotides 114979..115383

SEQ ID NO 177
<213> Macaca mulatta rhadinovirus 17577
nucleotides 115385..116413

SEQ ID NO 178
<213> Macaca mulatta rhadinovirus 17577

nucleotides 131731..131926

SEQ ID NO 179
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nucleotides 132333..133719
partial terminal repeat